



## SEQUENCE LISTING

<110> SYKES, KATHRYN F.  
HALE, KATHERINE S.  
JOHNSTON, STEPHEN A.

<120> METHODS FOR VACCINE IDENTIFICATION AND COMPOSITIONS FOR  
VACCINATION COMPRISING NUCLEIC ACID AND/OR POLYPEPTIDE  
SEQUENCES OF THE HERPESVIRUS FAMILY

<130> MCRO:002US

<140> 10/669,161

<141> 2003-09-23

<150> 60/412,956

<151> 2002-09-23

<160> 116

<170> PatentIn Ver. 2.1

<210> 1

<211> 342

<212> DNA

<213> Herpes Virus

<400> 1

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<211> 114

<212> PRT

<213> Herpes Virus

<400> 2

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Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg Gln Trp Leu His
    35           40           45
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Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp Asp Trp Pro Asp
    50           55           60
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Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro Thr Ala Ala Ala
    65           70           75           80
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Pro Arg Pro Arg Pro Pro Pro Pro Gly Val Gly Pro Gly Gly Gly Ala  
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Ala Leu

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<211> 248  
<212> PRT  
<213> Herpes Virus

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35 40 45  
Pro Pro Pro Ala Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg  
50 55 60  
Gln Trp Leu His Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp Asp  
65 70 75 80  
Asp Trp Pro Asp Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro  
85 90 95  
Thr Ala Ala Ala Pro Arg Pro Arg Pro Pro Pro Gly Val Gly Pro  
100 105 110

Gly Gly Gly Ala Asp Pro Ser His Pro Pro Ser Arg Pro Phe Arg Leu  
 115 120 125  
 Pro Pro Arg Leu Ala Leu Arg Leu Arg Val Thr Ala Glu His Leu Ala  
 130 135 140  
 Arg Leu Arg Leu Arg Arg Ala Gly Gly Glu Gly Ala Pro Glu Pro Pro  
 145 150 155 160  
 Ala Thr Pro Ala Thr Pro Ala Thr Pro Ala Thr Pro Ala  
 165 170 175  
 Arg Val Arg Phe Ser Pro His Val Arg Val Arg His Leu Val Val Trp  
 180 185 190  
 Ala Ser Ala Ala Arg Leu Ala Arg Arg Gly Ser Trp Ala Arg Glu Arg  
 195 200 205  
 Ala Asp Arg Ala Arg Phe Arg Arg Arg Val Ala Glu Ala Glu Ala Val  
 210 215 220  
 Ile Gly Pro Cys Leu Gly Pro Glu Ala Arg Ala Arg Ala Leu Ala Arg  
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 Gly Ala Gly Pro Ala Asn Ser Val  
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<210> 5  
 <211> 591  
 <212> DNA  
 <213> Herpes Virus

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 cgcttgcccc tttataaaga gatacgccag gcgctggaca gtcgcaagca ggccgcccagc 360  
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<210> 6  
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 <212> PRT  
 <213> Herpes Virus

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35	40	45
Ile Phe Leu Arg Tyr His Cys Pro Gly Leu Asp Thr Val Leu Trp Asp		
50	55	60
Arg His Ala Gln Lys Ala Tyr Trp Val Asn Pro Phe Leu Phe Val Ala		
65	70	75
Gly Phe Leu Glu Asp Leu Ser Tyr Pro Ala Phe Pro Ala Asn Thr Gln		
85	90	95
Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu Ile Arg Gln Ala Leu		
100	105	110
Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro Val Lys Ala Gly Cys		
115	120	125
Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys Val Gly Arg Gln Asp		
130	135	140
Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr Pro Val Leu Pro Pro		
145	150	155
Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu Thr Thr Pro Pro Pro		
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Ile Ile Ala Thr Ser Asp Pro Thr Pro Arg Arg Asp Ala Ala Thr Lys		
180	185	190
Ser Arg Arg Arg Arg		
195		

<210> 7  
 <211> 675  
 <212> DNA  
 <213> Herpes Virus

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acgcgcttgg	ccctttataa	agagatacgc	caggcgctgg	acagtcgcaa	gcaggccgcc	420
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ccggacgatg	aagcgggcct	gcagccgaag	cccctcacca	cgccgccgcc	catcatcgcc	600
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<210> 8

<211> 224  
<212> PRT  
<213> Herpes Virus

<400> 8

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20 25 30  
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35 40 45  
Ser Asp Asp Leu Asp Trp Arg Tyr Glu Thr Pro Ser Ala Ile Asn Tyr  
50 55 60  
Ala Leu Ile Asp Gly Ile Phe Leu Arg Tyr His Cys Pro Gly Leu Asp  
65 70 75 80  
Thr Val Leu Trp Asp Arg His Ala Gln Lys Ala Tyr Trp Val Asn Pro  
85 90 95  
Phe Leu Phe Val Ala Gly Phe Leu Glu Asp Leu Ser Tyr Pro Ala Phe  
100 105 110  
Pro Ala Asn Thr Gln Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu  
115 120 125  
Ile Arg Gln Ala Leu Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro  
130 135 140  
Val Lys Ala Gly Cys Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys  
145 150 155 160  
Val Gly Arg Gln Asp Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr  
165 170 175  
Pro Val Leu Pro Pro Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu  
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<210> 9  
<211> 1292  
<212> DNA  
<213> Herpes Virus

<400> 9

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<210> 10  
 <211> 430  
 <212> PRT  
 <213> Herpes Virus

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<400> 10
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      20              25              30

Ser Met His Gly Val Gln Pro Ile Leu Lys Arg Ile Arg Glu Leu Ser
      35              40              45

Gln Gln Gln Leu Asp Gly Ala Gln Val Pro His Leu Gln Trp Phe Arg
      50              55              60

Asp Val Ala Ala Leu Glu Ser Pro Ala Gly Leu Pro Leu Arg Glu Phe
      65              70              75              80

Pro Phe Ala Val Tyr Leu Ile Thr Gly Asn Ala Gly Ser Gly Lys Ser
      85              90              95

Thr Cys Val Gln Thr Ile Asn Glu Val Leu Asp Cys Val Val Thr Gly
      100             105             110

Ala Thr Arg Ile Ala Ala Gln Asn Met Tyr Ala Lys Leu Ser Gly Ala
      115             120             125

Phe Leu Ser Arg Pro Ile Asn Thr Ile Phe His Glu Phe Gly Phe Arg
      130             135             140

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Tyr	Trp	Glu	Val	Ile	Leu	Asp	Leu	Thr	Lys	Arg	Ala	Leu	Ala	Ala	Ser	180	185	190	
Gly	Gly	Glu	Glu	Leu	Arg	Asn	Glu	Phe	Arg	Ala	Leu	Ala	Ala	Leu	Glu	195	200	205	
Arg	Thr	Leu	Gly	Leu	Ala	Glu	Gly	Ala	Leu	Thr	Arg	Leu	Ala	Pro	Ala	210	215	220	
Thr	His	Gly	Ala	Leu	Pro	Ala	Phe	Thr	Arg	Ser	Asn	Val	Ile	Val	Ile	225	230	235	240
Asp	Glu	Ala	Gly	Leu	Leu	Gly	Arg	His	Leu	Leu	Thr	Ala	Val	Val	Tyr	245	250	255	
Cys	Trp	Trp	Met	Ile	Asn	Ala	Leu	Tyr	His	Thr	Pro	Gln	Tyr	Ala	Ala	260	265	270	
Arg	Leu	Arg	Pro	Val	Leu	Val	Cys	Val	Gly	Ser	Pro	Thr	Gln	Thr	Ala	275	280	285	
Ser	Leu	Glu	Ser	Thr	Phe	Glu	His	Gln	Lys	Leu	Arg	Cys	Ser	Val	Arg	290	295	300	
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Glu	Tyr	Ala	Arg	Leu	Ser	Tyr	Ser	Trp	Ala	Ile	Phe	Ile	Asn	Asn	Lys	325	330	335	
Arg	Cys	Val	Glu	His	Glu	Phe	Gly	Asn	Leu	Met	Lys	Val	Leu	Glu	Tyr	340	345	350	
Gly	Leu	Pro	Ile	Thr	Glu	Glu	His	Met	Gln	Phe	Val	Asp	Arg	Phe	Val	355	360	365	
Val	Pro	Glu	Asn	Tyr	Ile	Thr	Asn	Pro	Ala	Asn	Leu	Pro	Gly	Trp	Thr	370	375	380	
Arg	Leu	Phe	Ser	Ser	His	Lys	Glu	Val	Ser	Ala	Tyr	Met	Ala	Lys	Leu	385	390	395	400
His	Ala	Tyr	Leu	Lys	Val	Thr	Arg	Glu	Gly	Glu	Phe	Val	Val	Phe	Thr	405	410	415	
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<211> 2649

<212> DNA  
<213> Herpes Virus

<400> 11

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<210> 12  
<211> 882  
<212> PRT  
<213> Herpes Virus

<400> 12



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Ala	Glu	Ala	Phe	Leu	Asn	Phe	Thr	Ser	Met	His	Gly	Val	Gln	Pro	Ile	35	40	45	
Leu	Lys	Arg	Ile	Arg	Glu	Leu	Ser	Gln	Gln	Gln	Leu	Asp	Gly	Ala	Gln	50	55	60	
Val	Pro	His	Leu	Gln	Trp	Phe	Arg	Asp	Val	Ala	Ala	Leu	Glu	Ser	Pro	65	70	75	80
Ala	Gly	Leu	Pro	Leu	Arg	Glu	Phe	Pro	Phe	Ala	Val	Tyr	Leu	Ile	Thr	85	90	95	
Gly	Asn	Ala	Gly	Ser	Gly	Lys	Ser	Thr	Cys	Val	Gln	Thr	Ile	Asn	Glu	100	105	110	
Val	Leu	Asp	Cys	Val	Val	Thr	Gly	Ala	Thr	Arg	Ile	Ala	Ala	Gln	Asn	115	120	125	
Met	Tyr	Ala	Lys	Leu	Ser	Gly	Ala	Phe	Leu	Ser	Arg	Pro	Ile	Asn	Thr	130	135	140	
Ile	Phe	His	Glu	Phe	Gly	Phe	Arg	Gly	Asn	His	Val	Gln	Ala	Gln	Leu	145	150	155	160
Gly	Gln	Tyr	Pro	Tyr	Thr	Leu	Thr	Ser	Asn	Pro	Ala	Ser	Leu	Glu	Asp	165	170	175	
Leu	Gln	Arg	Arg	Asp	Leu	Thr	Tyr	Tyr	Trp	Glu	Val	Ile	Leu	Asp	Leu	180	185	190	
Thr	Lys	Arg	Ala	Leu	Ala	Ala	Ser	Gly	Gly	Glu	Glu	Leu	Arg	Asn	Glu	195	200	205	
Phe	Arg	Ala	Leu	Ala	Ala	Leu	Glu	Arg	Thr	Leu	Gly	Leu	Ala	Glu	Gly	210	215	220	
Ala	Leu	Thr	Arg	Leu	Ala	Pro	Ala	Thr	His	Gly	Ala	Leu	Pro	Ala	Phe	225	230	235	240
Thr	Arg	Ser	Asn	Val	Ile	Val	Ile	Asp	Glu	Ala	Gly	Leu	Leu	Gly	Arg	245	250	255	
His	Leu	Leu	Thr	Ala	Val	Val	Tyr	Cys	Trp	Trp	Met	Ile	Asn	Ala	Leu	260	265	270	
Tyr	His	Thr	Pro	Gln	Tyr	Ala	Ala	Arg	Leu	Arg	Pro	Val	Leu	Val	Cys	275	280	285	
Val	Gly	Ser	Pro	Thr	Gln	Thr	Ala	Ser	Leu	Glu	Ser	Thr	Phe	Glu	His	290	295	300	

Gln	Lys	Leu	Arg	Cys	Ser	Val	Arg	Gln	Ser	Glu	Asn	Val	Leu	Thr	Tyr	
305					310					315					320	
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			325						330					335		
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		340						345					350			
Asn	Leu	Met	Lys	Val	Leu	Glu	Tyr	Gly	Leu	Pro	Ile	Thr	Glu	Glu	His	
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Met	Gln	Phe	Val	Asp	Arg	Phe	Val	Val	Pro	Glu	Asn	Tyr	Ile	Thr	Asn	
	370					375					380					
Pro	Ala	Asn	Leu	Pro	Gly	Trp	Thr	Arg	Leu	Phe	Ser	Ser	His	Lys	Glu	
385					390					395					400	
Val	Ser	Ala	Tyr	Met	Ala	Lys	Leu	His	Ala	Tyr	Leu	Lys	Val	Thr	Arg	
			405						410					415		
Glu	Gly	Glu	Phe	Val	Val	Phe	Thr	Leu	Pro	Val	Leu	Thr	Phe	Val	Ser	
		420						425					430			
Val	Lys	Glu	Phe	Asp	Glu	Tyr	Arg	Arg	Leu	Thr	His	Gln	Pro	Gly	Leu	
	435						440					445				
Thr	Ile	Glu	Lys	Trp	Leu	Thr	Ala	Asn	Ala	Ser	Arg	Ile	Thr	Asn	Tyr	
	450					455					460					
Ser	Gln	Ser	Gln	Asp	Gln	Asp	Ala	Gly	His	Met	Arg	Cys	Glu	Val	His	
465				470						475					480	
Ser	Lys	Gln	Gln	Leu	Val	Val	Ala	Arg	Asn	Asp	Val	Thr	Tyr	Val	Leu	
			485						490					495		
Asn	Ser	Gln	Ile	Ala	Val	Thr	Ala	Arg	Leu	Arg	Lys	Leu	Val	Phe	Gly	
		500						505					510			
Phe	Ser	Gly	Thr	Phe	Arg	Ala	Phe	Glu	Ala	Val	Leu	Arg	Asp	Asp	Ser	
	515					520						525				
Phe	Val	Lys	Thr	Gln	Gly	Glu	Thr	Ser	Val	Glu	Phe	Ala	Tyr	Arg	Phe	
	530				535						540					
Leu	Ser	Arg	Leu	Ile	Phe	Ser	Gly	Leu	Ile	Ser	Phe	Tyr	Asn	Phe	Leu	
545				550						555					560	
Gln	Arg	Pro	Gly	Leu	Asp	Ala	Thr	Gln	Arg	Thr	Leu	Ala	Tyr	Ala	Arg	
			565					570						575		
Met	Gly	Glu	Leu	Thr	Ala	Glu	Ile	Leu	Ser	Leu	Arg	Pro	Lys	Ser	Ser	
		580						585					590			
Gly	Val	Pro	Thr	Gln	Ala	Ser	Val	Met	Ala	Asp	Ala	Gly	Ala	Pro	Gly	
	595						600					605				

Glu	Arg	Ala	Phe	Asp	Phe	Lys	Gln	Leu	Gly	Pro	Arg	Asp	Gly	Gly	Pro	610	615	620	
Asp	Asp	Phe	Pro	Asp	Asp	Asp	Leu	Asp	Val	Ile	Phe	Ala	Gly	Leu	Asp	625	630	635	640
Glu	Gln	Gln	Leu	Asp	Val	Phe	Tyr	Cys	His	Tyr	Thr	Pro	Gly	Glu	Pro	645	650	655	
Glu	Thr	Thr	Ala	Ala	Val	His	Thr	Gln	Phe	Ala	Leu	Leu	Lys	Arg	Ala	660	665	670	
Phe	Leu	Gly	Arg	Phe	Arg	Ile	Leu	Gln	Glu	Leu	Phe	Gly	Glu	Ala	Phe	675	680	685	
Glu	Val	Ala	Pro	Phe	Ser	Thr	Tyr	Val	Asp	Asn	Val	Ile	Phe	Arg	Gly	690	695	700	
Cys	Glu	Met	Leu	Thr	Gly	Ser	Pro	Arg	Gly	Gly	Leu	Met	Ser	Val	Ala	705	710	715	720
Leu	Gln	Thr	Asp	Asn	Tyr	Thr	Leu	Met	Gly	Tyr	Thr	Tyr	Ala	Arg	Val	725	730	735	
Phe	Ala	Phe	Ala	Asp	Glu	Leu	Arg	Arg	Arg	His	Ala	Thr	Ala	Asn	Val	740	745	750	
Ala	Glu	Leu	Leu	Glu	Glu	Ala	Pro	Leu	Pro	Tyr	Val	Val	Leu	Arg	Asp	755	760	765	
Gln	His	Gly	Phe	Met	Ser	Val	Val	Asn	Thr	Asn	Ile	Ser	Glu	Phe	Val	770	775	780	
Glu	Ser	Ile	Asp	Ser	Thr	Glu	Leu	Ala	Met	Ala	Ile	Asn	Ala	Asp	Tyr	785	790	795	800
Gly	Ile	Ser	Ser	Lys	Leu	Ala	Met	Thr	Ile	Thr	Arg	Ser	Gln	Gly	Leu	805	810	815	
Ser	Leu	Asp	Lys	Val	Ala	Ile	Cys	Phe	Thr	Pro	Gly	Asn	Leu	Arg	Leu	820	825	830	
Asn	Ser	Ala	Tyr	Val	Ala	Met	Ser	Arg	Thr	Thr	Ser	Ser	Glu	Phe	Leu	835	840	845	
Arg	Met	Asn	Leu	Asn	Pro	Leu	Arg	Glu	Arg	His	Glu	Arg	Asp	Asp	Val	850	855	860	
Ile	Ser	Glu	His	Ile	Leu	Ser	Ala	Leu	Arg	Asp	Pro	Asn	Val	Val	Ile	865	870	875	880
Val	Tyr																		

<210> 13  
<211> 1011

<212> DNA  
<213> Herpes Virus

<400> 13  
caactgttag acccgcccgc ggccgctcggg cccgtctgga cggcgcggtt ttgcttcccc 60  
ggacttcgcg cccagctcct ggccggccctg gccgacctcg gggggagcgg gctggcggac 120  
ccccacggcc ggacgggcct agcaagactg gacgcgctgg tggtagccgc tccctcagag 180  
ccctggggccg gggccgtctt ggagcgcctg gtcccggaca cgtgcaacgc ctgccctgcg 240  
ctgcggcagc tcctgggtgg ggtaatggcc gccgtctgcc tgcagatcga ggagacggcc 300  
agctcgggtga agttcgcggt ctgccccggg gatgggggtg cgttctgggg tgtctttaac 360  
gtggaccccc aagacgcgga tgcgggttcc ggggtgatcg aggacgcccg gcgggccatc 420  
gagacggccg tgggagccgt gcttagggcc aacgccgtcc ggctgcggca cccactgtgc 480  
ctggccctcg agggcgtcta caccacgca gtgcctgga gccaggcggg agtgtgttcc 540  
tggaactccc gcgacaacac tgaccatctt gggggatttc ctctccgagg gcccgctac 600  
accacggcgg caggggtcgt acgcgacacg ctgcgacggg tcctgggcct gacaacggca 660  
tgcgtgccgg aggaggacgc actcacggcc cggggcctta tggaggacgc ctgcgaccgc 720  
cttatcttgg acgcgtttaa taaacggttg gacgcggagt actggagcgt tcgggtgtcc 780  
ccctttgagg ccagcgaccc cttgcccccc actgccttcc gcggcggcgc cttgctggac 840  
gcagagcact actggcggcg cgtcgtgcgt gtctgtcccc gaggcgggga gtcggtcggc 900  
gtccccgtcg atctataccc gcggcccctt gtgtcccccc ccgtggactg cgctcatcac 960  
ctgcgcgaaa tcctgcgcga gattgagttg gtgtttaccg ggggtgctggc g 1011

<210> 14  
<211> 337  
<212> PRT  
<213> Herpes Virus

<400> 14  
Gln Leu Leu Asp Pro Pro Ala Ala Val Gly Pro Val Trp Thr Ala Arg  
1 5 10 15  
Phe Cys Phe Pro Gly Leu Arg Ala Gln Leu Leu Ala Ala Leu Ala Asp  
20 25 30  
Leu Gly Gly Ser Gly Leu Ala Asp Pro His Gly Arg Thr Gly Leu Ala  
35 40 45  
Arg Leu Asp Ala Leu Val Val Ala Ala Pro Ser Glu Pro Trp Ala Gly  
50 55 60  
Ala Val Leu Glu Arg Leu Val Pro Asp Thr Cys Asn Ala Cys Pro Ala  
65 70 75 80  
Leu Arg Gln Leu Leu Gly Gly Val Met Ala Ala Val Cys Leu Gln Ile  
85 90 95  
Glu Glu Thr Ala Ser Ser Val Lys Phe Ala Val Cys Gly Gly Asp Gly  
100 105 110  
Gly Ala Phe Trp Gly Val Phe Asn Val Asp Pro Gln Asp Ala Asp Ala  
115 120 125  
Ala Ser Gly Val Ile Glu Asp Ala Arg Arg Ala Ile Glu Thr Ala Val  
130 135 140  
Gly Ala Val Leu Arg Ala Asn Ala Val Arg Leu Arg His Pro Leu Cys

145		150		155		160
Leu Ala Leu Glu Gly Val Tyr Thr His Ala Val Ala Trp Ser Gln Ala						
	165		170		175	
Gly Val Trp Phe Trp Asn Ser Arg Asp Asn Thr Asp His Leu Gly Gly						
	180		185		190	
Phe Pro Leu Arg Gly Pro Ala Tyr Thr Thr Ala Ala Gly Val Val Arg						
	195		200		205	
Asp Thr Leu Arg Arg Val Leu Gly Leu Thr Thr Ala Cys Val Pro Glu						
	210		215		220	
Glu Asp Ala Leu Thr Ala Arg Gly Leu Met Glu Asp Ala Cys Asp Arg						
	225		230		235	240
Leu Ile Leu Asp Ala Phe Asn Lys Arg Leu Asp Ala Glu Tyr Trp Ser						
	245		250		255	
Val Arg Val Ser Pro Phe Glu Ala Ser Asp Pro Leu Pro Pro Thr Ala						
	260		265		270	
Phe Arg Gly Gly Ala Leu Leu Asp Ala Glu His Tyr Trp Arg Arg Val						
	275		280		285	
Val Arg Val Cys Pro Gly Gly Gly Glu Ser Val Gly Val Pro Val Asp						
	290		295		300	
Leu Tyr Pro Arg Pro Leu Val Leu Pro Pro Val Asp Cys Ala His His						
	305		310		315	320
Leu Arg Glu Ile Leu Arg Glu Ile Glu Leu Val Phe Thr Gly Val Leu						
	325		330		335	

Ala

<210> 15  
 <211> 2253  
 <212> DNA  
 <213> Herpes Virus

<400> 15  
 atggacaccg cagatatcgt gtgggtggag gagagcggtca gcgccattac cctttacgcg 60  
 gtatggctgc cccccgcgc tcgcgagtac ttccacgccc tgggtgtattt tgtatgtcgc 120  
 aacgccgcag gggagggtcg cgcgcgcttt gcggagggtct ccgtcaccgc gacggagctg 180  
 cggtatttct acggctccgc ggacgtctcc gtccaggccg tcgtggcggc cgcccgccgc 240  
 ggcagcagc cgccgcctc cccgctggag cccctggaga acccgactct gtggcggggc 300  
 ctgtacgcgt gcgtcctggc ggccctggag cgccagaccg ggccgggtggc cctgttcgcc 360  
 ccgctgcgta tcggctcgga cccacgcacg ggactgggtg tgaaagttga gagagcgtcg 420  
 tggggcccgcc cgccgcgcc tcgcgcgct ctctgggtcg cggaggccaa cattgacatc 480  
 gaccctatgg ccctggcggc gcgcgttgcc gagcatcccg acgcgcggct ggcgtggggc 540  
 cgctggcgg ccattcgca cccccccag tgcgcgtccg ccgcttcgct gaccgttaac 600  
 atcaccaccg gaaccgcgct atttgccgc gaataccaga ctcttgctt tccgccgatc 660  
 aagaaggagg gcgcgttcgg ggacctggtc gaggtgtgcg aggtgggcct gcggccacgc 720

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gggcacccgc aacgagtcac ggcacgggtg ctgctgcccc gcgattacga ctactttgta 780
agcgccggcg agaagttctc cgcgccggcg ctcgctcgccc ttttcggca gtggcataacc 840
acggtccacg ccgcccccg ggccttgcc cccgtctttg cctttctggg gcccagagttt 900
gaggtccggg ggggacccgt cccgtacttt gccgtcctgg ggtttcggg ttggcccacg 960
ttcacctgctc cggccacggc cgagtcggca cgggacctgg tgcgcggggc cgcggccgct 1020
tacgcgcgc tcctgggggc ctggcccgc gtggggggcca gggtcgtcct cccccgcga 1080
gcctggcccc gcgtggcctc ggcggcagcc ggatgcctcc tgcccgcggt gcgggaggcg 1140
gtggcgcggt ggcacccgc cactaaaatc atccaactgt tagaccgcc cgcgccgctc 1200
gggcccgtct ggacggcgcg gttttgcttc cccgacttc gcgccagct cctggcgggc 1260
ctggccgacc tcggggggag cgggctggcg gacccccacg gccggacggg cctagcaaga 1320
ctggacgcgc tgggtggggc cgctccctca gagccctggg ccggggccgt cttggagcgc 1380
ctgtcccgcg acacgtgcaa cgcctgccct gcgctgcggc agctcctggg tggggtaatg 1440
gccgcgctct gcctgcagat cgaggagacg gccagctcgg tgaagtctgc ggtctgcggg 1500
ggcgatgggg gtgcgttctg ggggtgtctt aacgtggacc cccaagacgc ggatgcggct 1560
tccgggggtga tcgaggacgc ccggcggggc atcgagacgg ccgtgggagc cgtgcttagg 1620
gccaacgccg tccggctgcg gcacccactg tgctggccc tcgagggcgt ctacaccac 1680
gcagtcgcct ggagccaggc gggagtgtgg ttctggaact cccgcgacaa cactgaccat 1740
cttgggggat ttctctccg cgggcccgcg tacaccacgg cggcaggggt cgtacgcgac 1800
acgctgcgac gggtcctggg cctgacaacg gcatgcgtgc cggaggagga cgcactcacg 1860
gcccggggcc ttatggagga cgcctgcgac cgccttatct tggacgcggt taataaacgg 1920
ttggacgcgg agtactggag cgttcgggtg tcccccttg aggccagcga ccccttgccc 1980
cccactgcct tccgcggcgg cgccttgctg gacgcagagc actactggcg gcgcgtcgtg 2040
cgtgtctgtc ccggaggcgg ggagtcggtc ggcgtccccg tcgatctata cccgcggccc 2100
cttgtgctcc ccccggtgga ctgcgctcat cacctgcgcg aaatcctgcg cgagattgag 2160
ttggtgttta ccggggtgct ggcgggagta tggggcgagg gggggaagtt tgtgtatccc 2220
tttgacgaca agatgtcgtt tctgtttgcc tga 2253

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<210> 16

<211> 750

<212> PRT

<213> Herpes Virus

<400> 16

Met Asp Thr Ala Asp Ile Val Trp Val Glu Glu Ser Val Ser Ala Ile

1

5

10

15

Thr Leu Tyr Ala Val Trp Leu Pro Pro Arg Ala Arg Glu Tyr Phe His

20

25

30

Ala Leu Val Tyr Phe Val Cys Arg Asn Ala Ala Gly Glu Gly Arg Ala

35

40

45

Arg Phe Ala Glu Val Ser Val Thr Ala Thr Glu Leu Arg Asp Phe Tyr

50

55

60

Gly Ser Ala Asp Val Ser Val Gln Ala Val Val Ala Ala Ala Arg Ala

65

70

75

80

Ala Thr Thr Pro Ala Ala Ser Pro Leu Glu Pro Leu Glu Asn Pro Thr

85

90

95

Leu Trp Arg Ala Leu Tyr Ala Cys Val Leu Ala Ala Leu Glu Arg Gln

100

105

110

Thr Gly Pro Val Ala Leu Phe Ala Pro Leu Arg Ile Gly Ser Asp Pro

115

120

125

Arg	Thr	Gly	Leu	Val	Val	Lys	Val	Glu	Arg	Ala	Ser	Trp	Gly	Pro	Pro	130	135	140	
Ala	Ala	Pro	Arg	Ala	Ala	Leu	Leu	Val	Ala	Glu	Ala	Asn	Ile	Asp	Ile	145	150	155	160
Asp	Pro	Met	Ala	Leu	Ala	Ala	Arg	Val	Ala	Glu	His	Pro	Asp	Ala	Arg	165	170	175	
Leu	Ala	Trp	Ala	Arg	Leu	Ala	Ala	Ile	Arg	Asp	Thr	Pro	Gln	Cys	Ala	180	185	190	
Ser	Ala	Ala	Ser	Leu	Thr	Val	Asn	Ile	Thr	Thr	Gly	Thr	Ala	Leu	Phe	195	200	205	
Ala	Arg	Glu	Tyr	Gln	Thr	Leu	Ala	Phe	Pro	Pro	Ile	Lys	Lys	Glu	Gly	210	215	220	
Ala	Phe	Gly	Asp	Leu	Val	Glu	Val	Cys	Glu	Val	Gly	Leu	Arg	Pro	Arg	225	230	235	240
Gly	His	Pro	Gln	Arg	Val	Thr	Ala	Arg	Val	Leu	Leu	Pro	Arg	Asp	Tyr	245	250	255	
Asp	Tyr	Phe	Val	Ser	Ala	Gly	Glu	Lys	Phe	Ser	Ala	Pro	Ala	Leu	Val	260	265	270	
Ala	Leu	Phe	Arg	Gln	Trp	His	Thr	Thr	Val	His	Ala	Ala	Pro	Gly	Ala	275	280	285	
Leu	Ala	Pro	Val	Phe	Ala	Phe	Leu	Gly	Pro	Glu	Phe	Glu	Val	Arg	Gly	290	295	300	
Gly	Pro	Val	Pro	Tyr	Phe	Ala	Val	Leu	Gly	Phe	Pro	Gly	Trp	Pro	Thr	305	310	315	320
Phe	Thr	Val	Pro	Ala	Thr	Ala	Glu	Ser	Ala	Arg	Asp	Leu	Val	Arg	Gly	325	330	335	
Ala	Ala	Ala	Ala	Tyr	Ala	Ala	Leu	Leu	Gly	Ala	Trp	Pro	Ala	Val	Gly	340	345	350	
Ala	Arg	Val	Val	Leu	Pro	Pro	Arg	Ala	Trp	Pro	Gly	Val	Ala	Ser	Ala	355	360	365	
Ala	Ala	Gly	Cys	Leu	Leu	Pro	Ala	Val	Arg	Glu	Ala	Val	Ala	Arg	Trp	370	375	380	
His	Pro	Ala	Thr	Lys	Ile	Ile	Gln	Leu	Leu	Asp	Pro	Pro	Ala	Ala	Val	385	390	395	400
Gly	Pro	Val	Trp	Thr	Ala	Arg	Phe	Cys	Phe	Pro	Gly	Leu	Arg	Ala	Gln	405	410	415	
Leu	Leu	Ala	Ala	Leu	Ala	Asp	Leu	Gly	Gly	Ser	Gly	Leu	Ala	Asp	Pro	420	425	430	

His	Gly	Arg	Thr	Gly	Leu	Ala	Arg	Leu	Asp	Ala	Leu	Val	Val	Ala	Ala	435	440	445	
Pro	Ser	Glu	Pro	Trp	Ala	Gly	Ala	Val	Leu	Glu	Arg	Leu	Val	Pro	Asp	450	455	460	
Thr	Cys	Asn	Ala	Cys	Pro	Ala	Leu	Arg	Gln	Leu	Leu	Gly	Gly	Val	Met	465	470	475	480
Ala	Ala	Val	Cys	Leu	Gln	Ile	Glu	Glu	Thr	Ala	Ser	Ser	Val	Lys	Phe	485	490	495	
Ala	Val	Cys	Gly	Gly	Asp	Gly	Gly	Ala	Phe	Trp	Gly	Val	Phe	Asn	Val	500	505	510	
Asp	Pro	Gln	Asp	Ala	Asp	Ala	Ala	Ser	Gly	Val	Ile	Glu	Asp	Ala	Arg	515	520	525	
Arg	Ala	Ile	Glu	Thr	Ala	Val	Gly	Ala	Val	Leu	Arg	Ala	Asn	Ala	Val	530	535	540	
Arg	Leu	Arg	His	Pro	Leu	Cys	Leu	Ala	Leu	Glu	Gly	Val	Tyr	Thr	His	545	550	555	560
Ala	Val	Ala	Trp	Ser	Gln	Ala	Gly	Val	Trp	Phe	Trp	Asn	Ser	Arg	Asp	565	570	575	
Asn	Thr	Asp	His	Leu	Gly	Gly	Phe	Pro	Leu	Arg	Gly	Pro	Ala	Tyr	Thr	580	585	590	
Thr	Ala	Ala	Gly	Val	Val	Arg	Asp	Thr	Leu	Arg	Arg	Val	Leu	Gly	Leu	595	600	605	
Thr	Thr	Ala	Cys	Val	Pro	Glu	Glu	Asp	Ala	Leu	Thr	Ala	Arg	Gly	Leu	610	615	620	
Met	Glu	Asp	Ala	Cys	Asp	Arg	Leu	Ile	Leu	Asp	Ala	Phe	Asn	Lys	Arg	625	630	635	640
Leu	Asp	Ala	Glu	Tyr	Trp	Ser	Val	Arg	Val	Ser	Pro	Phe	Glu	Ala	Ser	645	650	655	
Asp	Pro	Leu	Pro	Pro	Thr	Ala	Phe	Arg	Gly	Gly	Ala	Leu	Leu	Asp	Ala	660	665	670	
Glu	His	Tyr	Trp	Arg	Arg	Val	Val	Arg	Val	Cys	Pro	Gly	Gly	Gly	Glu	675	680	685	
Ser	Val	Gly	Val	Pro	Val	Asp	Leu	Tyr	Pro	Arg	Pro	Leu	Val	Leu	Pro	690	695	700	
Pro	Val	Asp	Cys	Ala	His	His	Leu	Arg	Glu	Ile	Leu	Arg	Glu	Ile	Glu	705	710	715	720
Leu	Val	Phe	Thr	Gly	Val	Leu	Ala	Gly	Val	Trp	Gly	Glu	Gly	Gly	Lys	725	730	735	



Phe Val Tyr Pro Phe Asp Asp Lys Met Ser Phe Leu Phe Ala  
740 745 750

<210> 17  
<211> 252  
<212> DNA  
<213> Herpes Virus

<400> 17  
tgccgaaaca acgtcctcat caccgacgac ggggaggtcg tctcgctgac cgcccacgac 60  
tttgacgtcg tggatatcga gtccgaagag gaaggtaatt tctacgtgcc cccggatatg 120  
cgcggggtta cgcgggcccc ggggagacag cgctgcgtt catcggaccc cccctcgcgc 180  
cacactcacc ggcggaaccc cggaggcgcc tgccccgcca cccagtttcc acccccatg 240  
tccgatagcg aa 252

<210> 18  
<211> 84  
<212> PRT  
<213> Herpes Virus

<400> 18  
Cys Arg Asn Asn Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu  
1 5 10 15  
Thr Ala His Asp Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly  
20 25 30  
Asn Phe Tyr Val Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly  
35 40 45  
Arg Gln Arg Leu Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg  
50 55 60  
Arg Thr Pro Gly Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met  
65 70 75 80  
Ser Asp Ser Glu

<210> 19  
<211> 291  
<212> DNA  
<213> Herpes Virus

<400> 19  
atgggcctct cgttctccgg ggcccggccc tgctgctgcc gaaacaacgt cctcatcacc 60  
gacgacgggg aggtcgtctc gctgaccgcc caccactttg acgtcgtgga tatcgagtcc 120  
gaagaggaag gtaatttcta cgtgcccccg gatatgcgcg gggttacgcg ggccccgggg 180  
agacagcgcc tgcgttcata ggaccccccc tcgcgccaca ctcaccggcg gacccccgga 240  
ggcgctgcc ccgccacca gtttccaccc cccatgtccg atagcgaata a 291

<210> 20

<211> 96  
 <212> PRT  
 <213> Herpes Virus

<400> 20  
 Met Gly Leu Ser Phe Ser Gly Ala Arg Pro Cys Cys Cys Arg Asn Asn  
     1                    5                    10                    15  
 Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu Thr Ala His Asp  
                     20                    25                    30  
 Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly Asn Phe Tyr Val  
             35                    40                    45  
 Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly Arg Gln Arg Leu  
         50                    55                    60  
 Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg Arg Thr Pro Gly  
     65                    70                    75                    80  
 Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met Ser Asp Ser Glu  
                     85                    90                    95

<210> 21  
 <211> 801  
 <212> DNA  
 <213> Herpes Virus

<400> 21  
 atggatgagt cccgcagaca gcgacctgct ggtcatgtgg cagctaacct cagcccccaa 60  
 ggtgcacgcc aacggtcctt caaggattgg ctgcatacct acgtacactc caacccccac 120  
 ggggcctccg ggcgccccag cggccccctt ctccaggacg ccgccgtctc ccgtctctcc 180  
 cacgggtccc gccaccgatc cggcctccgc gagcggcttc gcgcgggact atcccgatgg 240  
 cgaatgagcc gtcgtctca tcgccgcgcg tcccccgaga cgcccggtag ggcggccaaa 300  
 ctgaaccgcc cgcccctgcg cagatcccag gcggcggttaa ccgcaccccc ctcgctcccc 360  
 tcgcacatcc tcaccctcac gcgcacccgc aagctatgca gcccctgtgt cgccatcaac 420  
 cccgccctac actacacgac cctcgagatc cccggggccc gaagcttcgg ggggtctggg 480  
 ggatacggtg acgtccaact gattcgcgaa cataagcttg ccgttaagac cataaaggaa 540  
 aaggagtggg ttgccgttga gtcacgcgcg accctgttgg tcggggagtg cgttctacgc 600  
 gccggccgca cccacaacat ccgcggcttc atcgcgcccc tcgggttctc gctgcaacaa 660  
 cgacagatag tggtccccgc gtacgacatg gacctcggtg agtatatcgg ccaactggcg 720  
 tccctgcgca caacaaccc ctcggtctcg acggccctcc accagtgttt cacggagctg 780  
 gcccgcgccg ttgtgttttt a 801

<210> 22  
 <211> 267  
 <212> PRT  
 <213> Herpes Virus

<400> 22  
 Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn  
     1                    5                    10                    15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala  
                   20                                  25                                  30  
 Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly  
                   35                                  40                                  45  
 Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg  
                   50                                  55                                  60  
 His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp  
                   65                                  70                                  75                                  80  
 Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly  
                                   85                                  90                                  95  
 Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala  
                   100                                  105                                  110  
 Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg  
                   115                                  120                                  125  
 Ile Arg Lys Leu Cys Ser Pro Val Phe Ala Ile Asn Pro Ala Leu His  
                   130                                  135                                  140  
 Tyr Thr Thr Leu Glu Ile Pro Gly Ala Arg Ser Phe Gly Gly Ser Gly  
                   145                                  150                                  155                                  160  
 Gly Tyr Gly Asp Val Gln Leu Ile Arg Glu His Lys Leu Ala Val Lys  
                   165                                  170                                  175  
 Thr Ile Lys Glu Lys Glu Trp Phe Ala Val Glu Leu Ile Ala Thr Leu  
                   180                                  185                                  190  
 Leu Val Gly Glu Cys Val Leu Arg Ala Gly Arg Thr His Asn Ile Arg  
                   195                                  200                                  205  
 Gly Phe Ile Ala Pro Leu Gly Phe Ser Leu Gln Gln Arg Gln Ile Val  
                   210                                  215                                  220  
 Phe Pro Ala Tyr Asp Met Asp Leu Gly Lys Tyr Ile Gly Gln Leu Ala  
                   225                                  230                                  235                                  240  
 Ser Leu Arg Thr Thr Asn Pro Ser Val Ser Thr Ala Leu His Gln Cys  
                   245                                  250                                  255  
 Phe Thr Glu Leu Ala Arg Ala Val Val Phe Leu  
                   260                                  265

<210> 23  
 <211> 1557  
 <212> DNA  
 <213> Herpes Virus

<400> 23  
 atggatgagt ccgcagaca ggcacctgct ggatcatgtgg cagctaacct cagcccccaa 60

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ggtgcacgcc aacggtcctt caaggattgg ctgcgcatcct acgtacactc caacccccac 120
ggggcctccg ggcgccccag cggccctctt ctccaggacg ccgccgtctc ccgctcctcc 180
cacgggtccc gccaccgatc cggcctccgc gagcgggttc gcgcgggact atcccgatgg 240
cgaatgagcc gctcgtctca tcgccgcgcg tcccccgaga cggccggtac ggcggccaaa 300
ctgaaccgcc cgcccctgcg cagatcccag gcggcggttaa ccgcaccccc ctcgctcccc 360
tcgcacatcc tcaccctcac gcgcacccgc aagctatgca gccccgtgtt cgccatcaac 420
cccgccctac actacacgac cctcgagatc cccggggccc gaagcttcgg ggggtctggg 480
ggatacggtg acgtccaact gattcgcgaa cataagcttg ccgttaagac cataaaggaa 540
aaggagtggg ttgccgttga gctcatcgcg accctgttgg tcggggagtg cgttctacgc 600
gccggccgca cccacaacat ccgcgggttc atcgcgcccc tcgggttctc gctgcaacaa 660
cgacagatag tggtccccgc gtacgacatg gacctcggtg agtatatcgg ccaactggcg 720
tccctgcgca caaaaaccc ctcggtctcg acggccctcc accagtgtt caccgagctg 780
gcccgcgcgg ttgtgttttt aaacaccacc tgcgggatca gccacctgga tatcaagtgc 840
gccaacatcc tcgtcatgct gcggtcggac gccgtctcgc tccggcgggc cgtcctcgcc 900
gacttttagc tcgtcacctt caactccaac tccacgatcg cccgggggca gttttgcctc 960
caggagccgg acctcaagtc cccccggatg tttggcatgc ccaccgccct aaccacagcc 1020
aactttcaca ccttgggtgg tcacgggtat aaccagcccc cggagctgtt ggtgaaatac 1080
cttaacaacg aacgggccga atttaccac caccgcctga agcacgacgt cgggttagcg 1140
gttgacctgt acgcccgtgg ccagacgtcg ctggagttgg tggttagcgt gtacgtcgcc 1200
ccgagcctgg gcgtaccctg gacctgggtt cccggttacc agtattttta caaccagctg 1260
tcgccggact tcgccctggc cctgctcgcc tatcgtcgcg tgctgcaccc agccctgttt 1320
gtcaactcgg ccgagaccaa ccccacggc ctggcgatg acgtcccaga gggcatccgg 1380
cgccacctcc gcaatcccaa gattcggcgc gcgtttacgg atcgggtgat aaattaccag 1440
cacacacaca aggcgatact gtcgtcggtg gcgtgcctc ccgagcttaa gcctctcctg 1500
gtgctggtgt cccgcctgtg tcacaccaac ccgtgcgcgc ggcacgcgct gtcgtga 1557

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<210> 24  
 <211> 518  
 <212> PRT  
 <213> Herpes Virus

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<400> 24
Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn
  1                      5                      10                      15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala
          20                      25                      30

Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly
          35                      40                      45

Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
          50                      55                      60

His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp
          65                      70                      75                      80

Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly
          85                      90                      95

Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala
          100                      105                      110

Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg
          115                      120                      125

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Ile	Arg	Lys	Leu	Cys	Ser	Pro	Val	Phe	Ala	Ile	Asn	Pro	Ala	Leu	His	130	135	140	
Tyr	Thr	Thr	Leu	Glu	Ile	Pro	Gly	Ala	Arg	Ser	Phe	Gly	Gly	Ser	Gly	145	150	155	160
Gly	Tyr	Gly	Asp	Val	Gln	Leu	Ile	Arg	Glu	His	Lys	Leu	Ala	Val	Lys	165	170	175	
Thr	Ile	Lys	Glu	Lys	Glu	Trp	Phe	Ala	Val	Glu	Leu	Ile	Ala	Thr	Leu	180	185	190	
Leu	Val	Gly	Glu	Cys	Val	Leu	Arg	Ala	Gly	Arg	Thr	His	Asn	Ile	Arg	195	200	205	
Gly	Phe	Ile	Ala	Pro	Leu	Gly	Phe	Ser	Leu	Gln	Gln	Arg	Gln	Ile	Val	210	215	220	
Phe	Pro	Ala	Tyr	Asp	Met	Asp	Leu	Gly	Lys	Tyr	Ile	Gly	Gln	Leu	Ala	225	230	235	240
Ser	Leu	Arg	Thr	Thr	Asn	Pro	Ser	Val	Ser	Thr	Ala	Leu	His	Gln	Cys	245	250	255	
Phe	Thr	Glu	Leu	Ala	Arg	Ala	Val	Val	Phe	Leu	Asn	Thr	Thr	Cys	Gly	260	265	270	
Ile	Ser	His	Leu	Asp	Ile	Lys	Cys	Ala	Asn	Ile	Leu	Val	Met	Leu	Arg	275	280	285	
Ser	Asp	Ala	Val	Ser	Leu	Arg	Arg	Ala	Val	Leu	Ala	Asp	Phe	Ser	Leu	290	295	300	
Val	Thr	Leu	Asn	Ser	Asn	Ser	Thr	Ile	Ala	Arg	Gly	Gln	Phe	Cys	Leu	305	310	315	320
Gln	Glu	Pro	Asp	Leu	Lys	Ser	Pro	Arg	Met	Phe	Gly	Met	Pro	Thr	Ala	325	330	335	
Leu	Thr	Thr	Ala	Asn	Phe	His	Thr	Leu	Val	Gly	His	Gly	Tyr	Asn	Gln	340	345	350	
Pro	Pro	Glu	Leu	Leu	Val	Lys	Tyr	Leu	Asn	Asn	Glu	Arg	Ala	Glu	Phe	355	360	365	
Thr	Asn	His	Arg	Leu	Lys	His	Asp	Val	Gly	Leu	Ala	Val	Asp	Leu	Tyr	370	375	380	
Ala	Leu	Gly	Gln	Thr	Leu	Leu	Glu	Leu	Val	Val	Ser	Val	Tyr	Val	Ala	385	390	395	400
Pro	Ser	Leu	Gly	Val	Pro	Val	Thr	Arg	Phe	Pro	Gly	Tyr	Gln	Tyr	Phe	405	410	415	
Asn	Asn	Gln	Leu	Ser	Pro	Asp	Phe	Ala	Leu	Ala	Leu	Leu	Ala	Tyr	Arg	420	425	430	

Cys Val Leu His Pro Ala Leu Phe Val Asn Ser Ala Glu Thr Asn Thr  
435 440 445

His Gly Leu Ala Tyr Asp Val Pro Glu Gly Ile Arg Arg His Leu Arg  
450 455 460

Asn Pro Lys Ile Arg Arg Ala Phe Thr Asp Arg Cys Ile Asn Tyr Gln  
465 470 475 480

His Thr His Lys Ala Ile Leu Ser Ser Val Ala Leu Pro Pro Glu Leu  
485 490 495

Lys Pro Leu Leu Val Leu Val Ser Arg Leu Cys His Thr Asn Pro Cys  
500 505 510

Ala Arg His Ala Leu Ser  
515

<210> 25  
<211> 312  
<212> DNA  
<213> Herpes Virus

<400> 25  
cagcagtagc tggagcgcct cgagaaacag aggcaactta aggtgggagc ggacgagggc 60  
tcggcggggc tcaccatggg cggcgatgcc ctacgagtgc cctttttaga tttcgcgacc 120  
gagaccccca agcgccacca gaccgtgggc cctggcgctc ggacgctcca cgactgctgc 180  
gagcactcgc cgctcttctc ggccgtgggc cggcggtgc tgtttaatag cctggtgccg 240  
gcgcaactaa aggggcgtga tttcgggggc gaccacacgg ccaagctgga attcctggcc 300  
cccgagttgg ta 312

<210> 26  
<211> 104  
<212> PRT  
<213> Herpes Virus

<400> 26  
Gln Gln Tyr Leu Glu Arg Leu Glu Lys Gln Arg Gln Leu Lys Val Gly  
1 5 10 15  
Ala Asp Glu Ala Ser Ala Gly Leu Thr Met Gly Gly Asp Ala Leu Arg  
20 25 30  
Val Pro Phe Leu Asp Phe Ala Thr Ala Thr Pro Lys Arg His Gln Thr  
35 40 45  
Val Val Pro Gly Val Gly Thr Leu His Asp Cys Cys Glu His Ser Pro  
50 55 60  
Leu Phe Ser Ala Val Ala Arg Arg Leu Leu Phe Asn Ser Leu Val Pro  
65 70 75 80  
Ala Gln Leu Lys Gly Arg Asp Phe Gly Gly Asp His Thr Ala Lys Leu  
85 90 95

Glu Phe Leu Ala Pro Glu Leu Val  
100

<210> 27  
<211> 2208  
<212> DNA  
<213> Herpes Virus

<400> 27  
atgttttggtc agcagctggc gtccgacgtc cagcagtacc tggagcgcct cgagaaacag 60  
aggcaactta aggtggggcgc ggacgaggcg tcggcgggcc tcaccatggg cggcgatgcc 120  
ctacgagtgc cctttttaga tttcgcgacc gcgaccccca agcgccacca gaccgtggtc 180  
cctggcgctcg ggacgctcca cgactgctgc gagcactcgc cgctctttctc ggccgtggcg 240  
cgggcgctgc tgtttaatag cctgggtgccc gcgcaactaa aggggctga tttcgggggc 300  
gaccacacgg ccaagctgga attcctggcc cccgagttgg tacgggcggt ggcgcgactg 360  
cggtttaagg agtgcgcgcc ggcgagcgtg gtgcctcagc gtaacgccta ctatagcgtt 420  
ctgaatacgt ttcaggccct ccaccgctcc gaagcctttc gccagctggt gcactttgtg 480  
cgggactttg cccagctgct caaaacctcc ttccgggcct ccagcctcac ggagaccacg 540  
ggccccccca aaaaacgggc caaggtggac gtggccaccc acggccggac gtacggcacg 600  
ctggagctgt tccaaaaaat gatccttatg cagccacct actttctggc cgccgtgctc 660  
ctcggggacc acgcggagca ggtcaacacg ttcttgctgc tcgtgtttga gatccccctg 720  
tttagcgacg cgcccgctgc ccacttccgc cagcgcgcca ccgtgtttct cgtcccccg 780  
cgccacggca agacctggtt tctggtgccc ctcatcgcg tcgtcgctggc ctcttttcgg 840  
gggatcaaga tcggctacac ggcgcacatc cgcaaggcga ccgagccggt gtttgaggag 900  
atcgacgcct gcctgcgggg ctggttcggt tcggcccag tggaccacgt taaaggggaa 960  
accatctcct tctcgtttcc ggacgggtcg cgcagtacca tcgtgtttgc ctccagccac 1020  
aacacaaacg gaatccgagg ccaggacttt aacctgctct ttgtcgacga ggccaacttt 1080  
attcgcccgg atgcggtcca gacgattatg ggctttctca accaggccaa ctgaagatt 1140  
atcttcgtgt cgtccaccaa caccgggaag gccagtacga gctttttgta caacctccgc 1200  
ggggccgcag acgagcttct caacgtggtg acctatatat gcgatgatca catgccgagg 1260  
gtggtgacgc acacaaacgc cacggcctgt tcttggtata tcctcaacaa gcccgttttc 1320  
atcacgatgg acggggcggt tcgcccggacc gccgatttgt ttctggccga ttcttctatg 1380  
caggagatca tcggggggcca ggccaggag accggcgacg accggcccgt tctgaccaag 1440  
tctgcggggg agcggtttct gttgtaccgc cctcgacca ccaccaacag cggcctcatg 1500  
gcccccgatt tgtacgtgta cgtggatccc gcgttcacgg ccaacacccg agcctccggg 1560  
accggcgctc ctgtcgtcgg gcggtaccgc gacgattata tcattctcgc cctggagcac 1620  
ttttttctcc gcgcgctcac gggctcggcc cccgcccaga tcgcccgtcg cgtcgtccac 1680  
agtctgacgc aggtcctggc cctgcatccc ggggcgtttc gcggcgctcg ggtggcggtc 1740  
gagggaaata gcagccagga ctccggccgtc gccatcgcca cgcacgtgca cacagagatg 1800  
cacgcctac tggcctcgga gggggccgac gcgggctcgg gccccgagct tctcttctac 1860  
cactgcgagc ctcccgggag cgcggtgctg taccctttt tctgctcaa caaacagaag 1920  
acgcccgcct ttgaacactt tattaataaag tttaactccg ggggcgtcat ggccctccag 1980  
gagatcgttt ccgcgacggt gcgcctgcag accgaccgg tcgagtatct gctcgagcag 2040  
ctaaataacc tcaccgaaac cgtctcccc aacactgacg tccgtacgta ttccggaaaa 2100  
cggaacggcg cctcggatga ccttatggtc gccgtcatta tggccatcta cctcgcggcc 2160  
caggccggac ctccgcacac attcgtcct atcacacgcg tctcgtga 2208

<210> 28  
<211> 735  
<212> PRT  
<213> Herpes Virus

<400> 28  
Met Phe Gly Gln Gln Leu Ala Ser Asp Val Gln Gln Tyr Leu Glu Arg  
1 5 10 15

Leu Glu Lys Gln Arg Gln Leu Lys Val Gly Ala Asp Glu Ala Ser Ala  
 20 25 30

Gly Leu Thr Met Gly Gly Asp Ala Leu Arg Val Pro Phe Leu Asp Phe  
 35 40 45

Ala Thr Ala Thr Pro Lys Arg His Gln Thr Val Val Pro Gly Val Gly  
 50 55 60

Thr Leu His Asp Cys Cys Glu His Ser Pro Leu Phe Ser Ala Val Ala  
 65 70 75 80

Arg Arg Leu Leu Phe Asn Ser Leu Val Pro Ala Gln Leu Lys Gly Arg  
 85 90 95

Asp Phe Gly Gly Asp His Thr Ala Lys Leu Glu Phe Leu Ala Pro Glu  
 100 105 110

Leu Val Arg Ala Val Ala Arg Leu Arg Phe Lys Glu Cys Ala Pro Ala  
 115 120 125

Asp Val Val Pro Gln Arg Asn Ala Tyr Tyr Ser Val Leu Asn Thr Phe  
 130 135 140

Gln Ala Leu His Arg Ser Glu Ala Phe Arg Gln Leu Val His Phe Val  
 145 150 155 160

Arg Asp Phe Ala Gln Leu Leu Lys Thr Ser Phe Arg Ala Ser Ser Leu  
 165 170 175

Thr Glu Thr Thr Gly Pro Pro Lys Lys Arg Ala Lys Val Asp Val Ala  
 180 185 190

Thr His Gly Arg Thr Tyr Gly Thr Leu Glu Leu Phe Gln Lys Met Ile  
 195 200 205

Leu Met His Ala Thr Tyr Phe Leu Ala Ala Val Leu Leu Gly Asp His  
 210 215 220

Ala Glu Gln Val Asn Thr Phe Leu Arg Leu Val Phe Glu Ile Pro Leu  
 225 230 235 240

Phe Ser Asp Ala Ala Val Arg His Phe Arg Gln Arg Ala Thr Val Phe  
 245 250 255

Leu Val Pro Arg Arg His Gly Lys Thr Trp Phe Leu Val Pro Leu Ile  
 260 265 270

Ala Leu Ser Leu Ala Ser Phe Arg Gly Ile Lys Ile Gly Tyr Thr Ala  
 275 280 285

His Ile Arg Lys Ala Thr Glu Pro Val Phe Glu Glu Ile Asp Ala Cys  
 290 295 300

Leu Arg Gly Trp Phe Gly Ser Ala Arg Val Asp His Val Lys Gly Glu  
 305 310 315 320



Thr	Ile	Ser	Phe	Ser	Phe	Pro	Asp	Gly	Ser	Arg	Ser	Thr	Ile	Val	Phe	
				325					330					335		
Ala	Ser	Ser	His	Asn	Thr	Asn	Gly	Ile	Arg	Gly	Gln	Asp	Phe	Asn	Leu	
			340					345					350			
Leu	Phe	Val	Asp	Glu	Ala	Asn	Phe	Ile	Arg	Pro	Asp	Ala	Val	Gln	Thr	
		355					360					365				
Ile	Met	Gly	Phe	Leu	Asn	Gln	Ala	Asn	Cys	Lys	Ile	Ile	Phe	Val	Ser	
	370					375					380					
Ser	Thr	Asn	Thr	Gly	Lys	Ala	Ser	Thr	Ser	Phe	Leu	Tyr	Asn	Leu	Arg	
385					390					395					400	
Gly	Ala	Ala	Asp	Glu	Leu	Leu	Asn	Val	Val	Thr	Tyr	Ile	Cys	Asp	Asp	
				405					410					415		
His	Met	Pro	Arg	Val	Val	Thr	His	Thr	Asn	Ala	Thr	Ala	Cys	Ser	Cys	
			420					425						430		
Tyr	Ile	Leu	Asn	Lys	Pro	Val	Phe	Ile	Thr	Met	Asp	Gly	Ala	Val	Arg	
	435						440					445				
Arg	Thr	Ala	Asp	Leu	Phe	Leu	Ala	Asp	Ser	Phe	Met	Gln	Glu	Ile	Ile	
	450					455					460					
Gly	Gly	Gln	Ala	Arg	Glu	Thr	Gly	Asp	Asp	Arg	Pro	Val	Leu	Thr	Lys	
465					470					475					480	
Ser	Ala	Gly	Glu	Arg	Phe	Leu	Leu	Tyr	Arg	Pro	Ser	Thr	Thr	Thr	Asn	
				485					490						495	
Ser	Gly	Leu	Met	Ala	Pro	Asp	Leu	Tyr	Val	Tyr	Val	Asp	Pro	Ala	Phe	
		500						505					510			
Thr	Ala	Asn	Thr	Arg	Ala	Ser	Gly	Thr	Gly	Val	Ala	Val	Val	Gly	Arg	
		515					520									
Tyr	Arg	Asp	Asp	Tyr	Ile	Ile	Phe	Ala	Leu	Glu	His	Phe	Phe	Leu	Arg	
	530					535					540					
Ala	Leu	Thr	Gly	Ser	Ala	Pro	Ala	Asp	Ile	Ala	Arg	Cys	Val	Val	His	
545					550					555					560	
Ser	Leu	Thr	Gln	Val	Leu	Ala	Leu	His	Pro	Gly	Ala	Phe	Arg	Gly	Val	
				565					570					575		
Arg	Val	Ala	Val	Glu	Gly	Asn	Ser	Ser	Gln	Asp	Ser	Ala	Val	Ala	Ile	
			580					585					590			
Ala	Thr	His	Val	His	Thr	Glu	Met	His	Arg	Leu	Leu	Ala	Ser	Glu	Gly	
		595					600					605				
Ala	Asp	Ala	Gly	Ser	Gly	Pro	Glu	Leu	Leu	Phe	Tyr	His	Cys	Glu	Pro	
	610					615					620					

Pro Gly Ser Ala Val Leu Tyr Pro Phe Phe Leu Leu Asn Lys Gln Lys  
 625 630 635 640  
 Thr Pro Ala Phe Glu His Phe Ile Lys Lys Phe Asn Ser Gly Gly Val  
 645 650 655  
 Met Ala Ser Gln Glu Ile Val Ser Ala Thr Val Arg Leu Gln Thr Asp  
 660 665 670  
 Pro Val Glu Tyr Leu Leu Glu Gln Leu Asn Asn Leu Thr Glu Thr Val  
 675 680 685  
 Ser Pro Asn Thr Asp Val Arg Thr Tyr Ser Gly Lys Arg Asn Gly Ala  
 690 695 700  
 Ser Asp Asp Leu Met Val Ala Val Ile Met Ala Ile Tyr Leu Ala Ala  
 705 710 715 720  
 Gln Ala Gly Pro Pro His Thr Phe Ala Pro Ile Thr Arg Val Ser  
 725 730 735

<210> 29  
 <211> 312  
 <212> DNA  
 <213> Herpes Virus

<400> 29  
 aacgcactgt ggctctcctc cgctcgtaacg gagtcctgtc cctgcgtcgc cccgtgtctg 60  
 tgggcccaaga tggcccgatg tacctctggcg gtccaggggg atgctagcct gtgtccgctt 120  
 ctctttggcc atcccggtga tacggtcacc ctgctgcagg cccccgcgcg tccttgcatc 180  
 acggaccgtc tgcaagaggt cgctcggggga cgggtgcggcg cggacaacat cccccgacc 240  
 agcgccgggt ggcgccctgtg tgtcttctct tcgtacatca gtcgcctatt tgctacgagt 300  
 tgccccaccg tt 312

<210> 30  
 <211> 104  
 <212> PRT  
 <213> Herpes Virus

<400> 30  
 Asn Ala Leu Trp Leu Ser Ser Val Val Thr Glu Ser Cys Pro Cys Val  
 1 5 10 15  
 Ala Pro Cys Leu Trp Ala Lys Met Ala Gln Cys Thr Leu Ala Val Gln  
 20 25 30  
 Gly Asp Ala Ser Leu Cys Pro Leu Leu Phe Gly His Pro Val Asp Thr  
 35 40 45  
 Val Thr Leu Leu Gln Ala Pro Arg Arg Pro Cys Ile Thr Asp Arg Leu  
 50 55 60  
 Gln Glu Val Val Gly Gly Arg Cys Gly Ala Asp Asn Ile Pro Pro Thr  
 65 70 75 80

Ser Ala Gly Trp Arg Leu Cys Val Phe Ser Ser Tyr Ile Ser Arg Leu  
85 90 95

Phe Ala Thr Ser Cys Pro Thr Val  
100

<210> 31  
<211> 1122  
<212> DNA  
<213> Herpes Virus

<400> 31  
atggcgcagc tgggaccccc gcgggccctg gcgcgcgctg gtcccccggg gaccttgccc 60  
cggccgggatt cccggggccgg agctcgcggc acgcgcgata gagtcgacga cctgggggacg 120  
gacgtcgact ctatcgcgcy cattgtcaac tccgtctttg tgtggcgcggt cgttcggggcg 180  
gacgagcggc tcaagatctt tcggtgtcta acggtcctca ccgagcctct gtgtcaggtg 240  
gcccttctta acccagaccc cgggcgcgccc ctcttctgcy agatttttct gtatctgacg 300  
cgccccaaag cgctgcgggt gccccgaac acctcttttg ccctcttttt ctttaaccgc 360  
gagcgcgcgt actgcgcgat cgtccacctc cggagcgtga cgcacccctt gaccccgctc 420  
ctgtgcaccc tcacgttcgc acgcatacgg gcggccaccc ccccgaggga aacccccgac 480  
ccaaccaccg aacagctcgc ggaggagcca gtggtcggcg agctggatgg cgcgtatctg 540  
gtccccgcga agaccccccc ggagccgggc gcgtgctgcy ccttggggccc gggggcctgg 600  
tggcacctcc ccagcggcca gatctactgc tgggccatgg acagcgacct ggggtcgctc 660  
tgtccaccgg gaagcagggc ccgccatctg ggatggctcc tggccaggat caccaaccac 720  
ccgggggggt gcgagtcctg cgcgccgccc cccacatcg attccgcaa cgcactgtgg 780  
ctctcctccg tcgtaacgga gtccctgtccc tgcgtcgccc cgtgtctgtg ggccaagatg 840  
gcccagtgtg ccctggcggt ccagggggat gctagcctgt gtccgcttct ctttggccat 900  
cccgtggata cggtcaccc tctgcaggcc cccgcgcgtc cttgcatcac ggaccgtctg 960  
caagaggtcg tcgggggacg gtgcggcgcy gacaacatcc ccccgaccag cgcggggtgg 1020  
cgctgtgtg tcttctcttc gtacatcagt cgctatttg ctacgagttg cccaccggtt 1080  
gccccggcgg ttgccccggc ctctcaagc gatccgaat aa 1122

<210> 32  
<211> 373  
<212> PRT  
<213> Herpes Virus

<400> 32  
Met Ala Gln Leu Gly Pro Arg Arg Pro Leu Ala Pro Pro Gly Pro Pro  
1 5 10 15  
Gly Thr Leu Pro Arg Pro Asp Ser Arg Ala Gly Ala Arg Gly Thr Arg  
20 25 30  
Asp Arg Val Asp Asp Leu Gly Thr Asp Val Asp Ser Ile Ala Arg Ile  
35 40 45  
Val Asn Ser Val Phe Val Trp Arg Val Val Arg Ala Asp Glu Arg Leu  
50 55 60  
Lys Ile Phe Arg Cys Leu Thr Val Leu Thr Glu Pro Leu Cys Gln Val  
65 70 75 80  
Ala Leu Pro Asn Pro Asp Pro Gly Arg Ala Leu Phe Cys Glu Ile Phe

85					90					95					
Leu	Tyr	Leu	Thr	Arg	Pro	Lys	Ala	Leu	Arg	Leu	Pro	Pro	Asn	Thr	Phe
			100					105					110		
Phe	Ala	Leu	Phe	Phe	Phe	Asn	Arg	Glu	Arg	Arg	Tyr	Cys	Ala	Ile	Val
		115					120					125			
His	Leu	Arg	Ser	Val	Thr	His	Pro	Leu	Thr	Pro	Leu	Leu	Cys	Thr	Leu
	130					135					140				
Thr	Phe	Ala	Arg	Ile	Arg	Ala	Ala	Thr	Pro	Pro	Glu	Glu	Thr	Pro	Asp
145					150					155					160
Pro	Thr	Thr	Glu	Gln	Leu	Ala	Glu	Glu	Pro	Val	Val	Gly	Glu	Leu	Asp
				165					170					175	
Gly	Ala	Tyr	Leu	Val	Pro	Ala	Lys	Thr	Pro	Pro	Glu	Pro	Gly	Ala	Cys
			180					185					190		
Cys	Ala	Leu	Gly	Pro	Gly	Ala	Trp	Trp	His	Leu	Pro	Ser	Gly	Gln	Ile
		195					200					205			
Tyr	Cys	Trp	Ala	Met	Asp	Ser	Asp	Leu	Gly	Ser	Leu	Cys	Pro	Pro	Gly
	210					215					220				
Ser	Arg	Ala	Arg	His	Leu	Gly	Trp	Leu	Leu	Ala	Arg	Ile	Thr	Asn	His
225					230					235					240
Pro	Gly	Gly	Cys	Glu	Ser	Cys	Ala	Pro	Pro	Pro	His	Ile	Asp	Ser	Ala
				245					250					255	
Asn	Ala	Leu	Trp	Leu	Ser	Ser	Val	Val	Thr	Glu	Ser	Cys	Pro	Cys	Val
			260					265					270		
Ala	Pro	Cys	Leu	Trp	Ala	Lys	Met	Ala	Gln	Cys	Thr	Leu	Ala	Val	Gln
		275					280					285			
Gly	Asp	Ala	Ser	Leu	Cys	Pro	Leu	Leu	Phe	Gly	His	Pro	Val	Asp	Thr
	290					295					300				
Val	Thr	Leu	Leu	Gln	Ala	Pro	Arg	Arg	Pro	Cys	Ile	Thr	Asp	Arg	Leu
305					310					315					320
Gln	Glu	Val	Val	Gly	Gly	Arg	Cys	Gly	Ala	Asp	Asn	Ile	Pro	Pro	Thr
				325					330					335	
Ser	Ala	Gly	Trp	Arg	Leu	Cys	Val	Phe	Ser	Ser	Tyr	Ile	Ser	Arg	Leu
			340					345					350		
Phe	Ala	Thr	Ser	Cys	Pro	Thr	Val	Ala	Arg	Ala	Val	Ala	Arg	Ala	Ser
		355					360					365			
Ser	Ser	Asp	Pro	Glu											
			370												

<210> 33  
 <211> 1425  
 <212> DNA  
 <213> Herpes Virus

<400> 33  
 tgggttggggg aggtgaccag ggcgttcccc attctcctcg agaacctgat ggcgcgcgtc 60  
 gaggggaccg cccccgacgc cttttttcac accgcgtatg ccctggccgt cctggcacac 120  
 ctggggggac ggggcggtcg ggggcggcgg gtcgtcccg tcggcgacga cctcccgcc 180  
 cgctttgccc actccgacgg ccattacgtt ttgactact acagcacaag cggagacacg 240  
 ctgcggctta acaatcgctc aatcgccgtg gcgatggatg gtgacgtcag taaacgcgag 300  
 cagagtaaat gtcgcttcat ggaggccgtc ccctccacag cccacgcag ggtctgcgag 360  
 caatacctgc ccggggaaag ctacgcctac ctctgcctgg ggtttaatcg ccgcctctgt 420  
 ggcatagttg tctttcccg cggttttgcg ttcaccatta acatcgcggc ctaccttagc 480  
 ctctcgacc ccgtcgcgcg ggcgctgtc cttaggtttt gtcgcaagggt gtcgtccggg 540  
 aacggccggt ctcgctagcg ggcgccttcc cccggccacc tcgcccaccc actcctcccc 600  
 gcgcgcttgg cccccgctc tggggtttgc cctccccccg ccccgccat ggcgcagctg 660  
 ggaccccggc ggcccctggc gccgcctggt ccccgggga ccttgccccg gccggattcc 720  
 cgggcccggag ctcgcggcac gcgcgataga gtcgacgacc tggggacgga cgtcgactct 780  
 atcgcgcgca ttgtcaactc cgtctttgtg tggcgcgctg ttcgggcgga cgagcggctc 840  
 aagatctttc ggtgtctaac ggtcctcacc gagcctctgt gtcaggtggc ccttcctaac 900  
 ccagaccccg ggcgcgccct cttctgcgag atttttctgt atctgacgcg cccaaggcg 960  
 ctgcggttgc ccccgaacac cttctttgcc ctctttttct ttaaccgga gcgcgcgtac 1020  
 tgcgcgatcg tccacctcgg gagcgtgacg caccacctga ccccgctcct gtgcaccctc 1080  
 acgttcgcac gcatacgggc ggccaccccc cggaggaaa ccccgaccc aaccaccgaa 1140  
 cagctcgcgg aggagccagt ggtcggcgag ctggatggcg cgtatctggt ccccgcaag 1200  
 acccccccg agccgggcgc gtgctgcgcc ttgggcccgg gggcctggtg gcacctcccc 1260  
 agcggccaga tctactgctg ggccatggac agcgacctgg ggtcgctctg tccaccggga 1320  
 agcagggccc gccatctggg atggctcctg gccaggatca ccaaccacc ggggggctgc 1380  
 gagtctgcg ccccgccgcc ccacatcgat tccgccaacg cactg 1425

<210> 34  
 <211> 185  
 <212> PRT  
 <213> Herpes Virus

<400> 34  
 Trp Leu Gly Glu Val Thr Arg Arg Phe Pro Ile Leu Leu Glu Asn Leu  
 1 5 10 15  
 Met Arg Ala Val Glu Gly Thr Ala Pro Asp Ala Phe Phe His Thr Ala  
 20 25 30  
 Tyr Ala Leu Ala Val Leu Ala His Leu Gly Gly Arg Gly Gly Arg Gly  
 35 40 45  
 Arg Arg Val Val Pro Leu Gly Asp Asp Leu Pro Ala Arg Phe Ala Asp  
 50 55 60  
 Ser Asp Gly His Tyr Val Phe Asp Tyr Tyr Ser Thr Ser Gly Asp Thr  
 65 70 75 80  
 Leu Arg Leu Asn Asn Arg Pro Ile Ala Val Ala Met Asp Gly Asp Val  
 85 90 95  
 Ser Lys Arg Glu Gln Ser Lys Cys Arg Phe Met Glu Ala Val Pro Ser

100 105 110  
 Thr Ala Pro Arg Arg Val Cys Glu Gln Tyr Leu Pro Gly Glu Ser Tyr  
 115 120 125  
 Ala Tyr Leu Cys Leu Gly Phe Asn Arg Arg Leu Cys Gly Ile Val Val  
 130 135 140  
 Phe Pro Gly Gly Phe Ala Phe Thr Ile Asn Ile Ala Ala Tyr Leu Ser  
 145 150 155 160  
 Leu Ser Asp Pro Val Ala Arg Ala Ala Val Leu Arg Phe Cys Arg Lys  
 165 170 175  
 Val Ser Ser Gly Asn Gly Arg Ser Arg  
 180 185

<210> 35  
 <211> 1068  
 <212> DNA  
 <213> Herpes Virus

<400> 35  
 gccaacgagg tccagacgat ctccggccacg gcccggggtcg gccctcggtc tttggttcac 60  
 gtcacatcat ccagcgagtg cctggcgggcc gcgggaatcc ctctggccgc cctgatgcgc 120  
 ggccgccccg gactcgggac ggccgcaaac ttccaggtcg aaatccagac tcggggtcat 180  
 gccaccggcg actgtacccc gtggtgcacg gcgtttgccc cctacgtgcc cgcggtatgcg 240  
 gtgggggagc ttctggcccc cgtcgtgccc gcacaccctg gcctccttcc gcgtgcgtcc 300  
 agcgccgggg ggttggttcgt ctccctgccc gtggtgtgtg acgcgcaggg cgtctatgac 360  
 ccgtacgcgc tggcggcgct gcgccttgcg tggggctcgg gggcgagctg tgcccgcgtg 420  
 attctgttta gttacgacga gctcgtcccc cccaacacgc gctacgcggc cgacagcacg 480  
 cgcacatcat gcgtctgtcg gcatttgtgc cgctacgtcg ctctgcttgg cgccgccgcc 540  
 ccgcccggcc cgaaggaggc tgcggccccac ctgtccatgg gtctggggga aagcgcgtcc 600  
 ccgcgtccgc agcccttggc ccggccccac gcggggggcg ccgcagaccg gcccatcgtc 660  
 ggggcgtccg acccccccat ctccccggag gacgagctga cggcccccg cggcgacacg 720  
 accgcggccc aggacgtgtc catcgcacag gagaacgagg agatcctcgc gttggttcag 780  
 cgggcagtgc aggacgtcac ccgccgccac ccggtccgag cgcggaccgg gcgtgcggcc 840  
 tgtggcggtt catcggggct acgccagggc gccctggttc accaggccgt cagcgggggc 900  
 gccatggggg cggtgacgc agatgcgggt ctggcgggtc tggagcccc cggcgggggc 960  
 cgctttgttg cccagcgc ccacggggc gggggcgagg acatcctgaa cgacgttcta 1020  
 acccttacc ctggtaccgc aaagccgcgg tcgctggtcg agtggttg 1068

<210> 36  
 <211> 356  
 <212> PRT  
 <213> Herpes Virus

<400> 36  
 Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala Arg Val Gly Pro Arg  
 1 5 10 15  
 Ser Leu Val His Val Ile Ile Ser Ser Glu Cys Leu Ala Ala Ala Gly  
 20 25 30  
 Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro Gly Leu Gly Thr Ala

35					40					45						
Ala	Asn	Phe	Gln	Val	Glu	Ile	Gln	Thr	Arg	Ala	His	Ala	Thr	Gly	Asp	
50					55					60						
Cys	Thr	Pro	Trp	Cys	Thr	Ala	Phe	Ala	Ala	Tyr	Val	Pro	Ala	Asp	Ala	
65					70					75					80	
Val	Gly	Glu	Leu	Leu	Ala	Pro	Val	Val	Pro	Ala	His	Pro	Gly	Leu	Leu	
85					90					95						
Pro	Arg	Ala	Ser	Ser	Ala	Gly	Gly	Leu	Phe	Val	Ser	Leu	Pro	Val	Val	
100					105					110						
Cys	Asp	Ala	Gln	Gly	Val	Tyr	Asp	Pro	Tyr	Ala	Val	Ala	Ala	Leu	Arg	
115					120					125						
Leu	Ala	Trp	Gly	Ser	Gly	Ala	Ser	Cys	Ala	Arg	Val	Ile	Leu	Phe	Ser	
130					135					140						
Tyr	Asp	Glu	Leu	Val	Pro	Pro	Asn	Thr	Arg	Tyr	Ala	Ala	Asp	Ser	Thr	
145					150					155					160	
Arg	Ile	Met	Arg	Val	Cys	Arg	His	Leu	Cys	Arg	Tyr	Val	Ala	Leu	Leu	
165					170					175						
Gly	Ala	Ala	Ala	Pro	Pro	Ala	Ala	Lys	Glu	Ala	Ala	Ala	His	Leu	Ser	
180					185					190						
Met	Gly	Leu	Gly	Glu	Ser	Ala	Ser	Pro	Arg	Pro	Gln	Pro	Leu	Ala	Arg	
195					200					205						
Pro	His	Ala	Gly	Ala	Pro	Ala	Asp	Pro	Pro	Ile	Val	Gly	Ala	Ser	Asp	
210					215					220						
Pro	Pro	Ile	Ser	Pro	Glu	Glu	Gln	Leu	Thr	Ala	Pro	Gly	Gly	Asp	Thr	
225					230					235					240	
Thr	Ala	Ala	Gln	Asp	Val	Ser	Ile	Ala	Gln	Glu	Asn	Glu	Glu	Ile	Leu	
245					250					255						
Ala	Leu	Val	Gln	Arg	Ala	Val	Gln	Asp	Val	Thr	Arg	Arg	His	Pro	Val	
260					265					270						
Arg	Ala	Arg	Thr	Gly	Arg	Ala	Ala	Cys	Gly	Val	Ala	Ser	Gly	Leu	Arg	
275					280					285						
Gln	Gly	Ala	Leu	Val	His	Gln	Ala	Val	Ser	Gly	Gly	Ala	Met	Gly	Ala	
290					295					300						
Ala	Asp	Ala	Asp	Ala	Val	Leu	Ala	Gly	Leu	Glu	Pro	Pro	Gly	Gly	Gly	
305					310					315					320	
Arg	Phe	Val	Ala	Pro	Ala	Pro	His	Gly	Pro	Gly	Gly	Glu	Asp	Ile	Leu	
325					330					335						
Asn	Asp	Val	Leu	Thr	Leu	Thr	Pro	Gly	Thr	Ala	Lys	Pro	Arg	Ser	Leu	

340

345

350

Val Glu Trp Leu  
355

<210> 37  
<211> 1056  
<212> DNA  
<213> Herpes Virus

<400> 37  
gttctaacc ttacccttg taccgcaaag ccgcggctgc tggtcgagtg gttggatcgc 60  
ggatgggaag ccctggccgg cggcgaccgg ccggactggc tgtggagccg tcgttctatc 120  
tccgtggtcc tgcgccacca ctacggaacc aagcagcgtc tcgtcgtcgt ctctacgag 180  
aactccgtgg cgtggggcgg gcgacgcgcc cgcctccgc tgcgtgcctc ggcgctggcc 240  
acggccctga ccgaggcctg cgcgcagaa cgcgtcgtgc gccccacca gctgtctccc 300  
gctgggcagg cggagctgct gctacgcttt cgcgcgtcgc aggtgcccct gcgccaccgc 360  
cgccccgtcc tgcgcctt tgacatcgcc gccgaggtcg cctttaccgc gcgcatacat 420  
ctggcgtgcc tccgggccct gggccaggcc atccgggccg cgcttcaggg cggcccgca 480  
atctcacagc gcctgcgcta tgactttggc cccgaccaac gcgcgtggtt gggggaggtg 540  
accaggcgtc tccccattct cctcgagaac ctgatgcgcg ccgtcgaggg gaccgcccc 600  
gacgcctttt ttcacaccgc gtatgccctg gccgtcctgg cacacctggg gggacggggc 660  
ggtcgggggc ggcggtcgt cccgctcggc gacgacctcc cggcccgtt tgcgcactcc 720  
gacggccatt acgtttttga ctactacagc acaagcggag acacgctgcg gcttaacaat 780  
cgtccaatcg ccgtggcgat ggatggtgac gtcagtaaac gcgagcagag taaatgtcgc 840  
ttcatggagg ccgtccctc cacagcccca cgcagggtct gcgagcaata cctgcccggg 900  
gaaagctacg cctacctctg cctgggggtt aatcgccgcc tctgtggcat agttgtcttt 960  
cccggcggct ttgcgttcac cattaacatc gcggcctacc ttagcctctc ggaccccgtc 1020  
gcgcggggccg ctgtccttag gttttgtcgc aagggtg 1056

<210> 38  
<211> 352  
<212> PRT  
<213> Herpes Virus

<400> 38  
Val Leu Thr Leu Thr Pro Gly Thr Ala Lys Pro Arg Ser Leu Val Glu  
1 5 10 15  
Trp Leu Asp Arg Gly Trp Glu Ala Leu Ala Gly Gly Asp Arg Pro Asp  
20 25 30  
Trp Leu Trp Ser Arg Arg Ser Ile Ser Val Val Leu Arg His His Tyr  
35 40 45  
Gly Thr Lys Gln Arg Phe Val Val Val Ser Tyr Glu Asn Ser Val Ala  
50 55 60  
Trp Gly Gly Arg Arg Ala Arg Pro Pro Leu Leu Ser Ser Ala Leu Ala  
65 70 75 80  
Thr Ala Leu Thr Glu Ala Cys Ala Ala Glu Arg Val Val Arg Pro His  
85 90 95  
Gln Leu Ser Pro Ala Gly Gln Ala Glu Leu Leu Leu Arg Phe Pro Ala



100					105					110						
Leu	Glu	Val	Pro	Leu	Arg	His	Pro	Arg	Pro	Val	Leu	Pro	Pro	Phe	Asp	
115					120					125						
Ile	Ala	Ala	Glu	Val	Ala	Phe	Thr	Ala	Arg	Ile	His	Leu	Ala	Cys	Leu	
130					135					140						
Arg	Ala	Leu	Gly	Gln	Ala	Ile	Arg	Ala	Ala	Leu	Gln	Gly	Gly	Pro	Arg	
145					150					155					160	
Ile	Ser	Gln	Arg	Leu	Arg	Tyr	Asp	Phe	Gly	Pro	Asp	Gln	Arg	Ala	Trp	
165					170					175						
Leu	Gly	Glu	Val	Thr	Arg	Arg	Phe	Pro	Ile	Leu	Leu	Glu	Asn	Leu	Met	
180					185					190						
Arg	Ala	Val	Glu	Gly	Thr	Ala	Pro	Asp	Ala	Phe	Phe	His	Thr	Ala	Tyr	
195					200					205						
Ala	Leu	Ala	Val	Leu	Ala	His	Leu	Gly	Gly	Arg	Gly	Gly	Arg	Gly	Arg	
210					215					220						
Arg	Val	Val	Pro	Leu	Gly	Asp	Asp	Leu	Pro	Ala	Arg	Phe	Ala	Asp	Ser	
225					230					235					240	
Asp	Gly	His	Tyr	Val	Phe	Asp	Tyr	Tyr	Ser	Thr	Ser	Gly	Asp	Thr	Leu	
245					250					255						
Arg	Leu	Asn	Asn	Arg	Pro	Ile	Ala	Val	Ala	Met	Asp	Gly	Asp	Val	Ser	
260					265					270						
Lys	Arg	Glu	Gln	Ser	Lys	Cys	Arg	Phe	Met	Glu	Ala	Val	Pro	Ser	Thr	
275					280					285						
Ala	Pro	Arg	Arg	Val	Cys	Glu	Gln	Tyr	Leu	Pro	Gly	Glu	Ser	Tyr	Ala	
290					295					300						
Tyr	Leu	Cys	Leu	Gly	Phe	Asn	Arg	Arg	Leu	Cys	Gly	Ile	Val	Val	Phe	
305					310					315					320	
Pro	Gly	Gly	Phe	Ala	Phe	Thr	Ile	Asn	Ile	Ala	Ala	Tyr	Leu	Ser	Leu	
325					330					335						
Ser	Asp	Pro	Val	Ala	Arg	Ala	Ala	Val	Leu	Arg	Phe	Cys	Arg	Lys	Val	
340					345					350						

<210> 39  
 <211> 2112  
 <212> DNA  
 <213> Herpes Virus

<400> 39

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atgaacgcgc acttgGCCAA cgaggtccag acgatctcgg ccacggcccg ggtcggccct 60
cggtcttttg ttcacgtcat catatccagc gagtgcctgg cggccgcggg aatccctctg 120
gccgccctga tgcgcggccg ccccgactc gggacggccg caaacttcca ggtcgaaatc 180
cagactcggg ctcatgccac cggcgactgt acccctgggt gcacggcggt tgccgcctac 240
gtgcccgcgg atgcgggtgg ggagcttctg gccccctcgt tgcgggcaca ccctggcctc 300
cttccgcgtg cgtccagcgc cgggggggtt ttcgtctccc tgcctggtgt gtgtgacgcg 360
cagggcgtct atgaccgcta cgcctggcgg gcgctgcgcc ttgctggggg ctggggggcg 420
agctgtgccc gcgtgattct gtttagttac gacgagctcg tccccccaa cacgcgtac 480
gcgcccgaca gcacgcgcac catgcgcgtc tgcggcatt tgtgccgcta cgtcgtctctg 540
cttggcgcgg ccgccccgcc ggccgcgaag gaggtgcgg ccacactgtc catgggtctg 600
ggggaaagcg cgtccccgcg tccgcagccc ttggcccgcc ccacgcggg ggcgcccgca 660
gacccgccc tgcgcggggc gtccgacccc cccatctccc cggaggagca gctgacggcc 720
cccggcgggc acacgaccgc ggcccaggac gtgtccatcg cacaggagaa cgaggagatc 780
ctcgcgttgg ttcagcgggc agtgaggac gtcaccgcgc gccaccgggt ccgagcgcgg 840
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gcgctggcca cggccctgac cgaggcctgc gccgcagaac gcgtcgtgcg cccccaccag 1320
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cttaacaatc gtccaatcgc cgtggcgatg gatggtgacg tcagtaaacg cgagcagagt 1860
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ctgcccgggg aaagctacgc ctacctctgc ctggggttta atcgccgcct ctgtggcata 1980
gttgcttttc ccggcggtt tgcgttcacc attaacatcg cggcctacct tagcctctcg 2040
gaccccgctc cgcgggccgc tgtccttagg ttttgtcgca aggtgtcgtc cgggaacggc 2100
cggtctcgct ag 2112

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<210> 40  
 <211> 703  
 <212> PRT  
 <213> Herpes Virus

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<400> 40
Met Asn Ala His Leu Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala
  1               5               10              15

Arg Val Gly Pro Arg Ser Leu Val His Val Ile Ile Ser Ser Glu Cys
      20               25              30

Leu Ala Ala Ala Gly Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro
      35               40              45

Gly Leu Gly Thr Ala Ala Asn Phe Gln Val Glu Ile Gln Thr Arg Ala
      50               55              60

His Ala Thr Gly Asp Cys Thr Pro Trp Cys Thr Ala Phe Ala Ala Tyr

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65	70	75	80
Val Pro Ala Asp	Ala Val Gly Glu Leu Leu Ala	Pro Val Val Pro Ala	
	85	90	95
His Pro Gly Leu Leu Pro Arg Ala Ser Ser Ala Gly Gly Leu Phe Val			
	100	105	110
Ser Leu Pro Val Val Cys Asp Ala Gln Gly Val Tyr Asp Pro Tyr Ala			
	115	120	125
Val Ala Ala Leu Arg Leu Ala Trp Gly Ser Gly Ala Ser Cys Ala Arg			
	130	135	140
Val Ile Leu Phe Ser Tyr Asp Glu Leu Val Pro Pro Asn Thr Arg Tyr			
	145	150	155
Ala Ala Asp Ser Thr Arg Ile Met Arg Val Cys Arg His Leu Cys Arg			
	165	170	175
Tyr Val Ala Leu Leu Gly Ala Ala Ala Pro Pro Ala Ala Lys Glu Ala			
	180	185	190
Ala Ala His Leu Ser Met Gly Leu Gly Glu Ser Ala Ser Pro Arg Pro			
	195	200	205
Gln Pro Leu Ala Arg Pro His Ala Gly Ala Pro Ala Asp Pro Pro Ile			
	210	215	220
Val Gly Ala Ser Asp Pro Pro Ile Ser Pro Glu Glu Gln Leu Thr Ala			
	225	230	235
Pro Gly Gly Asp Thr Thr Ala Ala Gln Asp Val Ser Ile Ala Gln Glu			
	245	250	255
Asn Glu Glu Ile Leu Ala Leu Val Gln Arg Ala Val Gln Asp Val Thr			
	260	265	270
Arg Arg His Pro Val Arg Ala Arg Thr Gly Arg Ala Ala Cys Gly Val			
	275	280	285
Ala Ser Gly Leu Arg Gln Gly Ala Leu Val His Gln Ala Val Ser Gly			
	290	295	300
Gly Ala Met Gly Ala Ala Asp Ala Asp Ala Val Leu Ala Gly Leu Glu			
	305	310	315
Pro Pro Gly Gly Gly Arg Phe Val Ala Pro Ala Pro His Gly Pro Gly			
	325	330	335
Gly Glu Asp Ile Leu Asn Asp Val Leu Thr Leu Thr Pro Gly Thr Ala			
	340	345	350
Lys Pro Arg Ser Leu Val Glu Trp Leu Asp Arg Gly Trp Glu Ala Leu			
	355	360	365
Ala Gly Gly Asp Arg Pro Asp Trp Leu Trp Ser Arg Arg Ser Ile Ser			

370		375		380
Val Val Leu Arg His His Tyr Gly Thr Lys Gln Arg Phe Val Val Val				
385		390		400
Ser Tyr Glu Asn Ser Val Ala Trp Gly Gly Arg Arg Ala Arg Pro Pro				
	405		410	415
Leu Leu Ser Ser Ala Leu Ala Thr Ala Leu Thr Glu Ala Cys Ala Ala				
	420		425	430
Glu Arg Val Val Arg Pro His Gln Leu Ser Pro Ala Gly Gln Ala Glu				
	435		440	445
Leu Leu Leu Arg Phe Pro Ala Leu Glu Val Pro Leu Arg His Pro Arg				
	450		455	460
Pro Val Leu Pro Pro Phe Asp Ile Ala Ala Glu Val Ala Phe Thr Ala				
	465		470	475
Arg Ile His Leu Ala Cys Leu Arg Ala Leu Gly Gln Ala Ile Arg Ala				
	485		490	495
Ala Leu Gln Gly Gly Pro Arg Ile Ser Gln Arg Leu Arg Tyr Asp Phe				
	500		505	510
Gly Pro Asp Gln Arg Ala Trp Leu Gly Glu Val Thr Arg Arg Phe Pro				
	515		520	525
Ile Leu Leu Glu Asn Leu Met Arg Ala Val Glu Gly Thr Ala Pro Asp				
	530		535	540
Ala Phe Phe His Thr Ala Tyr Ala Leu Ala Val Leu Ala His Leu Gly				
	545		550	555
Gly Arg Gly Gly Arg Gly Arg Arg Val Val Pro Leu Gly Asp Asp Leu				
	565		570	575
Pro Ala Arg Phe Ala Asp Ser Asp Gly His Tyr Val Phe Asp Tyr Tyr				
	580		585	590
Ser Thr Ser Gly Asp Thr Leu Arg Leu Asn Asn Arg Pro Ile Ala Val				
	595		600	605
Ala Met Asp Gly Asp Val Ser Lys Arg Glu Gln Ser Lys Cys Arg Phe				
	610		615	620
Met Glu Ala Val Pro Ser Thr Ala Pro Arg Arg Val Cys Glu Gln Tyr				
	625		630	635
Leu Pro Gly Glu Ser Tyr Ala Tyr Leu Cys Leu Gly Phe Asn Arg Arg				
	645		650	655
Leu Cys Gly Ile Val Val Phe Pro Gly Gly Phe Ala Phe Thr Ile Asn				
	660		665	670
Ile Ala Ala Tyr Leu Ser Leu Ser Asp Pro Val Ala Arg Ala Ala Val				

675

680

685

Leu Arg Phe Cys Arg Lys Val Ser Ser Gly Asn Gly Arg Ser Arg  
 690 695 700

<210> 41  
 <211> 942  
 <212> DNA  
 <213> Herpes Virus

<400> 41  
 gacggctttg aaactgacat cgcgataccc tcgggcatct cgcgccccga tgcggcggcg 60  
 ctgcagcgct gcgaagggcg ggtgggtattc ctgccgacca tccgccggca actgacgctg 120  
 gccgacgtgg cgcacgaatc cttcgtctcc ggaggcgta gtcccgacac gttgggggtt 180  
 ttgctggcgt accgaaggcg cttccccgcg gtcatacccc ggggtgcttc cacgcgaatc 240  
 gtcgcctgcc ccctggacgt gggcctcacc cagccggca ccgttaacct tcgcaacacc 300  
 tccccgtag atctctgtaa cggggacccc atcagcctcg tcccgcccggt gttcgagggc 360  
 caagcgacgg acgtgcgcct ggattcgctg gacctcagct tgcggtttcc cgttccgctt 420  
 ccatcgcccc tggcgcgcgga aatcgtggcg cggctcgtgg ccaggggcat ccgggacctg 480  
 aaccccagcc ccagaaaccc cggagggctg ccagacctca acgtgctgta ctacaacggg 540  
 agtcgcctct cgctgctggc ggacgtccaa caactcggtc ccgtaaacgc cgagctgcga 600  
 tcgctgggtcc ttaacatggt ttactcgatc acggagggaa ccaccatcat ccttacgcta 660  
 atcccccggc tctttgcgct aagtgccag gacgggtacg tgaacgctct actgcagatg 720  
 cagagtgtca cgcgggaggg cgcacagctc attcaccocg aagccccggc cctgatgcag 780  
 gatggagagc gaaggctgcc gctttacgag gcgctcgtcg cctggctgac ccacgcgggc 840  
 caactaggag acaccttggc cctggctccc gtggttcggg tgtgcacctt tgacggcgcg 900  
 gccgttgtgc ggtccggaga catggcccc gttatacgct at 942

<210> 42  
 <211> 314  
 <212> PRT  
 <213> Herpes Virus

<400> 42  
 Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile Ser Arg Pro  
 1 5 10 15  
 Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val Phe Leu Pro  
 20 25 30  
 Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His Glu Ser Phe  
 35 40 45  
 Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu Leu Ala Tyr  
 50 55 60  
 Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro Thr Arg Ile  
 65 70 75 80  
 Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly Thr Val Asn  
 85 90 95  
 Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp Pro Ile Ser  
 100 105 110

Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val Arg Leu Asp  
 115 120 125  
 Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro Ser Pro Leu  
 130 135 140  
 Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile Arg Asp Leu  
 145 150 155 160  
 Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu Asn Val Leu  
 165 170 175  
 Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val Gln Gln Leu  
 180 185 190  
 Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn Met Val Tyr  
 195 200 205  
 Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile Pro Arg Leu  
 210 215 220  
 Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu Leu Gln Met  
 225 230 235 240  
 Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro Glu Ala Pro  
 245 250 255  
 Ala Leu Met Gln Asp Gly Glu Arg Arg Leu Pro Leu Tyr Glu Ala Leu  
 260 265 270  
 Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr Leu Ala Leu  
 275 280 285  
 Ala Pro Val Val Arg Val Cys Thr Phe Asp Gly Ala Ala Val Val Arg  
 290 295 300  
 Ser Gly Asp Met Ala Pro Val Ile Arg Tyr  
 305 310

<210> 43  
 <211> 957  
 <212> DNA  
 <213> Herpes Virus

<400> 43  
 atgctggcgg acggctttga aactgacatc gcgataccct cgggcatctc gcgccccgat 60  
 gcggcggcgc tgcagcgtg cgaaggcggt gtggtattcc tgccgaccat ccgcccggcaa 120  
 ctgacgctgg ccgacgtggc gcacgaatcc ttctgtctcg gaggcgtcag tcccgacacg 180  
 ttgggggttg tgcctggcgt ccgaaggcgc tccccgcgg tcatcacccg ggtgcttccc 240  
 acgcgaatcg tcgctgccc cctggacgtg ggccctaccc acgccggcac cgttaacctt 300  
 cgcaacacct cccccgtaga tctctgtaac ggggacccca tcagcctcgt cccgcccgtg 360  
 ttcgagggcc aagcgacgga cgtgcgcctg gattcgtctg acctcacgtt gcgggttccc 420  
 gttccgcttc catcgccctt ggcgcgcgaa atcgtggcgc ggctcgtggc caggggcatac 480  
 cgggacctga accccagccc cagaaacccc ggagggctgc cagacctcaa cgtgctgtac 540  
 tacaacggga gtcgcctctc gctgctggcg gacgtccaac aactcgggtc cgtaaaccgc 600  
 gagctgcgat cgctggctct taacatggtt tactcgatca cggaggggaa caccatcatc 660

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cttacgctaa tccccggct ctttgcgcta agtgcccagg acgggtacgt gaacgctcta 720
ctgcagatgc agagtgtcac gcgggaggcc gccagctca ttcaccccga agccccggcc 780
ctgatgcagg atggagagcg aaggctgccg ctttacgagg cgctcgtcgc ctggctgacc 840
cacgcgggcc aactaggaga caccttgccg ctggctcccg tggttcgggt gtgcaccttt 900
gacggcgcgg ccgttgtgcg gtccggagac atggcccccg ttatacgcta tccctaa 957

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<210> 44  
 <211> 318  
 <212> PRT  
 <213> Herpes Virus

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<400> 44
Met Leu Ala Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile
  1             5             10             15

Ser Arg Pro Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val
          20             25             30

Phe Leu Pro Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His
  35             40             45

Glu Ser Phe Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu
  50             55             60

Leu Ala Tyr Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro
  65             70             75             80

Thr Arg Ile Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly
          85             90             95

Thr Val Asn Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp
          100            105            110

Pro Ile Ser Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val
          115            120            125

Arg Leu Asp Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro
          130            135            140

Ser Pro Leu Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile
          145            150            155            160

Arg Asp Leu Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu
          165            170            175

Asn Val Leu Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val
          180            185            190

Gln Gln Leu Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn
          195            200            205

Met Val Tyr Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile
          210            215            220

Pro Arg Leu Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu
          225            230            235            240

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Leu Gln Met Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro  
245 250 255

Glu Ala Leu Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr  
275 280 285

Val	Val	Arg	Ser	Gly	Asp	Met	Ala	Pro	Val	Ile	Arg	Tyr	Pro
305					310					315			

<400> 45							
cctccgccaa	acaacaccga	ctcagattcc	ctggtgcccg	gggccagga	ttccgccccg		60
cccgccccca	cgctaaggga	gctgtggtgg	gtgttttatg	ccgcagaccg	ggcgctggag		120
gagccccgcg	ccgactctgg	cctcaccgcg	gaggaggtac	gtgccgtacg	tgggttcccg		180
gagcaggcgt	ggaaactgtt	tggctccgcg	ggggccccgc	gggcgtttat	cggggccgcg		240
ttgggcctga	gccccctcca	aaagctagcc	gtttactact	atatcatcca	ccgagagagg		300
cgcctgtccc	ccttccccgc	gctagtccgg	ctcgtaggcc	ggtacacaca	gcgccacggc		360
ctgtacgtcc	ctcggccccga	cgaccagtc	ttggccgatg	ccatcaacgg	gctgtttcgc		420
gacgcgctgg	cggccggaac	cacagccgag	cagctcctca	tgttcgacct	tctcccccca		480
aaggacgtgc	cggtgggaag	cgacgtgcag	gccgacagca	ccgctctgct	gcgctttata		540
gaatcgcaac	gtctcgccgt	ccccgggggg	gtgatctccc	ccgagcacgt	cgcgtacctt		600
ggtgcgttcc	tgacgtgct	gtacgtggc	cgcgggcgca	tgtccgcagc	cacgcacacc		660
gcgcgttgta	cagggggtgac	ctccctgggt	ctagcgggtg	gtgacgtgga	ccgtctttcc		720
gcgtttgacc	cgggagcggc	gggcgcggcc	agccgcacgc	gggcgcgcgg	gtacctggat		780
gtgcttctta	ccgttcgt						798

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<400> 46
Pro Pro Pro Asn Asn Thr Asp Ser Ser Ser Leu Val Pro Gly Ala Gln
   1                   5               10                 15
```

Tyr Ala Ala Asp Arg Ala Leu Glu Glu Pro Arg Ala Asp Ser Gly Leu  
35 40 45



Lys Leu Phe Gly Ser Ala Gly Ala Pro Arg Ala Phe Ile Gly Ala Ala  
 65 70 75 80  
 Leu Gly Leu Ser Pro Leu Gln Lys Leu Ala Val Tyr Tyr Tyr Ile Ile  
 85 90 95  
 His Arg Glu Arg Arg Leu Ser Pro Phe Pro Ala Leu Val Arg Leu Val  
 100 105 110  
 Gly Arg Tyr Thr Gln Arg His Gly Leu Tyr Val Pro Arg Pro Asp Asp  
 115 120 125  
 Pro Val Leu Ala Asp Ala Ile Asn Gly Leu Phe Arg Asp Ala Leu Ala  
 130 135 140  
 Ala Gly Thr Thr Ala Glu Gln Leu Leu Met Phe Asp Leu Leu Pro Pro  
 145 150 155 160  
 Lys Asp Val Pro Val Gly Ser Asp Val Gln Ala Asp Ser Thr Ala Leu  
 165 170 175  
 Leu Arg Phe Ile Glu Ser Gln Arg Leu Ala Val Pro Gly Gly Val Ile  
 180 185 190  
 Ser Pro Glu His Val Ala Tyr Leu Gly Ala Phe Leu Ser Val Leu Tyr  
 195 200 205  
 Ala Gly Arg Gly Arg Met Ser Ala Ala Thr His Thr Ala Arg Leu Thr  
 210 215 220  
 Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp Arg Leu Ser  
 225 230 235 240  
 Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr Arg Ala Ala  
 245 250 255  
 Gly Tyr Leu Asp Val Leu Leu Thr Val Arg  
 260 265

<210> 47  
 <211> 1608  
 <212> DNA  
 <213> Herpes Virus

<400> 47  
 atggagctta gctacgccac caccatgcac taccgggacg ttgtgtttta cgtcacaacg 60  
 gaccgaaacc gggcctactt tgtgtgcggg ggggtgtgtt attccgtggg gcggccgtgt 120  
 gcctcgcagc ccggggagat tgccaagttt ggtctggtcg ttcgagggac aggcccagac 180  
 gaccgcgtgg tcgccaacta tgtacgaagc gagctccgac aacgcggcct gcaggacgtg 240  
 cgtcccattg gggaggacga ggtgtttctg gacagcgtgt gtcttctaaa cccgaacgtg 300  
 agctccgagc tggatgtgat taacacgaac gacgtggaag tgctggacga atgtctggcc 360  
 gagtactgca cctcgtctgc aaccagcccg ggtgtgctaa tatccgggct gcgcgtgcgg 420  
 gcgcaggaca gaatcatcga gttgtttgaa caccacaaga tagtcaacgt ttctcgcac 480  
 tttgtgtata ccccgctccc atacgtgttc gccctggccc aggcgcacct ccccggtc 540  
 ccgagctcgc tggaggccct ggtgagcggc ctgtttgacg gcatccccgc cccacgccag 600  
 ccacttgacg cccacaaccc gcgcacggat gtggttatca cgggcccgcg cgccccacga 660

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cccatcgccg ggtcgggggc ggggtcgggg ggcgcgggcg ccaagcgggc caccgtcagc 720
gagttcgtgc aagtcaaaca cattgaccgc gtgggccccg ctggcgtttc gccggcgcc 780
ccgccaaca acaccgactc gagttccctg gtgcccgggg cccaggattc cgccccgcc 840
ggccccacgc taaggagct gtggtgggtg ttttatgccg cagaccgggc gctggaggag 900
ccccgcgcg actctggcct caccgcgag gaggtacgtg ccgtacgtgg gttccgggag 960
caggcgtaga aactgtttgg ctccgcgggg gccccgcggg cgtttatcgg ggccgcgttg 1020
ggcctgagcc ccctccaaa gctagccgtt tactactata tcatccaccg agagaggcgc 1080
ctgtccccct tccccgcgt agtccggctc gtaggcgggt acacacagcg ccacggcctg 1140
tacgtccctc ggcccagca cccagtcttg gccgatgcca tcaacgggct gtttcgcgac 1200
gcgctggcgg ccggaaccac agccgagcag ctctcatgt tcgaccttct cccccaaag 1260
gacgtgccgg tgggaagcga cgtgcaggcc gacagcaccg ctctgctgcg ctttatagaa 1320
tcgcaacgtc tcgccgtccc cggggggggt atctcccccg agcacgtcgc gtaccttggt 1380
gcgttcctga gcgtgctgta cgctggccgc gggcgcatgt ccgcagccac gcacaccgcg 1440
cggctgacag gggtagctc cctgggtgta gcggtgggtg acgtggaccg tctttccgcg 1500
tttgaccgcg gagcggcggg cgcgccagc cgcacgcggg ccgccgggta cctggatgtg 1560
cttcttaccg ttcgtctcgc tcgctcccaa caggacagt ctgtgtaa 1608

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<210> 48  
 <211> 535  
 <212> PRT  
 <213> Herpes Virus

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<400> 48
Met Glu Leu Ser Tyr Ala Thr Thr Met His Tyr Arg Asp Val Val Phe
  1                      5                      10                    15

Tyr Val Thr Thr Asp Arg Asn Arg Ala Tyr Phe Val Cys Gly Gly Cys
      20                      25                    30

Val Tyr Ser Val Gly Arg Pro Cys Ala Ser Gln Pro Gly Glu Ile Ala
      35                      40                    45

Lys Phe Gly Leu Val Val Arg Gly Thr Gly Pro Asp Asp Arg Val Val
      50                      55                    60

Ala Asn Tyr Val Arg Ser Glu Leu Arg Gln Arg Gly Leu Gln Asp Val
      65                      70                    75                    80

Arg Pro Ile Gly Glu Asp Glu Val Phe Leu Asp Ser Val Cys Leu Leu
      85                      90                    95

Asn Pro Asn Val Ser Ser Glu Leu Asp Val Ile Asn Thr Asn Asp Val
      100                     105                    110

Glu Val Leu Asp Glu Cys Leu Ala Glu Tyr Cys Thr Ser Leu Arg Thr
      115                     120                    125

Ser Pro Gly Val Leu Ile Ser Gly Leu Arg Val Arg Ala Gln Asp Arg
      130                     135                    140

Ile Ile Glu Leu Phe Glu His Pro Thr Ile Val Asn Val Ser Ser His
      145                     150                    155                    160

Phe Val Tyr Thr Pro Ser Pro Tyr Val Phe Ala Leu Ala Gln Ala His
      165                     170                    175

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Leu	Pro	Arg	Leu	Pro	Ser	Ser	Leu	Glu	Ala	Leu	Val	Ser	Gly	Leu	Phe	180	185	190
Asp	Gly	Ile	Pro	Ala	Pro	Arg	Gln	Pro	Leu	Asp	Ala	His	Asn	Pro	Arg	195	200	205
Thr	Asp	Val	Val	Ile	Thr	Gly	Arg	Arg	Ala	Pro	Arg	Pro	Ile	Ala	Gly	210	215	220
Ser	Gly	Ala	Gly	Ser	Gly	Gly	Ala	Gly	Ala	Lys	Arg	Ala	Thr	Val	Ser	225	230	235
Glu	Phe	Val	Gln	Val	Lys	His	Ile	Asp	Arg	Val	Gly	Pro	Ala	Gly	Val	245	250	255
Ser	Pro	Ala	Pro	Pro	Pro	Asn	Asn	Thr	Asp	Ser	Ser	Ser	Leu	Val	Pro	260	265	270
Gly	Ala	Gln	Asp	Ser	Ala	Pro	Pro	Gly	Pro	Thr	Leu	Arg	Glu	Leu	Trp	275	280	285
Trp	Val	Phe	Tyr	Ala	Ala	Asp	Arg	Ala	Leu	Glu	Glu	Pro	Arg	Ala	Asp	290	295	300
Ser	Gly	Leu	Thr	Arg	Glu	Glu	Val	Arg	Ala	Val	Arg	Gly	Phe	Arg	Glu	305	310	315
Gln	Ala	Trp	Lys	Leu	Phe	Gly	Ser	Ala	Gly	Ala	Pro	Arg	Ala	Phe	Ile	325	330	335
Gly	Ala	Ala	Leu	Gly	Leu	Ser	Pro	Leu	Gln	Lys	Leu	Ala	Val	Tyr	Tyr	340	345	350
Tyr	Ile	Ile	His	Arg	Glu	Arg	Arg	Leu	Ser	Pro	Phe	Pro	Ala	Leu	Val	355	360	365
Arg	Leu	Val	Gly	Arg	Tyr	Thr	Gln	Arg	His	Gly	Leu	Tyr	Val	Pro	Arg	370	375	380
Pro	Asp	Asp	Pro	Val	Leu	Ala	Asp	Ala	Ile	Asn	Gly	Leu	Phe	Arg	Asp	385	390	395
Ala	Leu	Ala	Ala	Gly	Thr	Thr	Ala	Glu	Gln	Leu	Leu	Met	Phe	Asp	Leu	405	410	415
Leu	Pro	Pro	Lys	Asp	Val	Pro	Val	Gly	Ser	Asp	Val	Gln	Ala	Asp	Ser	420	425	430
Thr	Ala	Leu	Leu	Arg	Phe	Ile	Glu	Ser	Gln	Arg	Leu	Ala	Val	Pro	Gly	435	440	445
Gly	Val	Ile	Ser	Pro	Glu	His	Val	Ala	Tyr	Leu	Gly	Ala	Phe	Leu	Ser	450	455	460
Val	Leu	Tyr	Ala	Gly	Arg	Gly	Arg	Met	Ser	Ala	Ala	Thr	His	Thr	Ala	465	470	475

Arg Leu Thr Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp  
485 490 495

Arg Leu Ser Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr  
500 505 510

Arg Ala Ala Gly Tyr Leu Asp Val Leu Leu Thr Val Arg Leu Ala Arg  
515 520 525

Ser Gln His Gly Gln Ser Val  
530 535

<210> 49  
<211> 834  
<212> DNA  
<213> Herpes Virus

<400> 49  
gattcccgaa acttcatcac ccccgagttc ccccgggact tttggatgtc gcccgctctt 60  
aacctcccc gggagacggc ggcggagcag gtggtcgtcc tacaggccca gcgcacagcg 120  
gctgccgctg ccctggagaa cgccgccatg caggcggccg agtccccgt cgatatcgag 180  
cgccggttac gcccgatcga acggaacgtg cagcagatcg caggcgccct ggaggcgctg 240  
gagacggcgg cgcccgccgc cgaagaggcg gatgccgcgc gcggggatga gccggcggggt 300  
ggggggcgacg gggggggcgcc cccgggtctg gccgtcgcgg agatggagggt ccagatcgtg 360  
cgcaacgacc cgccgctacg atacgacacc aacctccccg tggatctgct acacatgggtg 420  
tacgcggggc gcggggcgac cggctcgtcg ggggtggtgt tcgggacctg gtaccgcact 480  
atccaggacc gcaccatcac ggactttccc ctgaccaccc gcagtgccga ctttcgggac 540  
ggccgtatgt ccaagacctt catgacggcg ctggtactgt ccctgcaggc gtgcggccgg 600  
ctgtatgtgg gccagcgcca ctattccgcc ttcgagtgcg ccgtgttggtg tctctacctg 660  
ctgtaccgaa acacgcacgg ggccgcccgc gatagcgacc gcgctccggt cacgttcggg 720  
gatctgctgg gccggctgcc ccgctacctg gcgtgcctgg ccgcggtgat cgggaccgag 780  
ggcgggccggc cacagtaccg ctaccgcgac gacaagctcc ccaagacgca gttc 834

<210> 50  
<211> 278  
<212> PRT  
<213> Herpes Virus

<400> 50  
Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro Arg Asp Phe Trp Met  
1 5 10 15  
Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala Ala Glu Gln Val Val  
20 25 30  
Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala Ala Leu Glu Asn Ala  
35 40 45  
Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile Glu Arg Arg Leu Arg  
50 55 60  
Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly Ala Leu Glu Ala Leu  
65 70 75 80  
Glu Thr Ala Ala Ala Ala Ala Glu Glu Ala Asp Ala Ala Arg Gly Asp

85										90					95				
Glu	Pro	Ala	Gly	Gly	Gly	Asp	Gly	Gly	Ala	Pro	Pro	Gly	Leu	Ala	Val				
			100				105						110						
Ala	Glu	Met	Glu	Val	Gln	Ile	Val	Arg	Asn	Asp	Pro	Pro	Leu	Arg	Tyr				
			115				120						125						
Asp	Thr	Asn	Leu	Pro	Val	Asp	Leu	Leu	His	Met	Val	Tyr	Ala	Gly	Arg				
			130				135						140						
Gly	Ala	Thr	Gly	Ser	Ser	Gly	Val	Val	Phe	Gly	Thr	Trp	Tyr	Arg	Thr				
			145				150						155						
Ile	Gln	Asp	Arg	Thr	Ile	Thr	Asp	Phe	Pro	Leu	Thr	Thr	Arg	Ser	Ala				
			165				170						175						
Asp	Phe	Arg	Asp	Gly	Arg	Met	Ser	Lys	Thr	Phe	Met	Thr	Ala	Leu	Val				
			180				185						190						
Leu	Ser	Leu	Gln	Ala	Cys	Gly	Arg	Leu	Tyr	Val	Gly	Gln	Arg	His	Tyr				
			195				200						205						
Ser	Ala	Phe	Glu	Cys	Ala	Val	Leu	Cys	Leu	Tyr	Leu	Leu	Tyr	Arg	Asn				
			210				215						220						
Thr	His	Gly	Ala	Ala	Asp	Asp	Ser	Asp	Arg	Ala	Pro	Val	Thr	Phe	Gly				
			225				230						235						
Asp	Leu	Leu	Gly	Arg	Leu	Pro	Arg	Tyr	Leu	Ala	Cys	Leu	Ala	Ala	Val				
			245				250						255						
Ile	Gly	Thr	Glu	Gly	Gly	Arg	Pro	Gln	Tyr	Arg	Tyr	Arg	Asp	Asp	Lys				
			260				265						270						
Leu	Pro	Lys	Thr	Gln	Phe														
			275																

<210> 51  
 <211> 1743  
 <212> DNA  
 <213> Herpes Virus

<400> 51  
 atggaccggt actgcccatt tgacgctctg gacgtctggg aacacaggcg cttcatagtc 60  
 gccgattccc gaaacttcat ccccccgag ttccccggg acttttgat gtcgcccgtc 120  
 tttaacctcc cccgggagac ggcgggcgag caggtggtcg tcctacaggc ccagcgcaca 180  
 gcggctgccg ctgccctgga gaacgccgcc atgcaggcgg ccgagctccc cgtcgatatc 240  
 gagcgccggt tacgcccgat cgaacggaac gtgcacgaga tcgcaggcgc cctggaggcg 300  
 ctggagacgg cggcgggcgc cgccgaagag gcggatgccg cgcgcgggga tgagccggcg 360  
 ggtggggggc acgggggggc gccccgggt ctggccgtcg cggagatgga ggtccagatc 420  
 gtgcgcaacg accgcgcgt acgatacgac accaacctcc ccgtggatct gctacacatg 480  
 gtgtacgcgg gccgcggggc gaccggctcg tcgggggtgg tgttcgggac ctggtaccgc 540  
 actatccagg accgcacat cacggacttt ccctgacca ccgcagtg cgcactttcgg 600  
 gacggccgta tgtccaagac cttcatgacg gcgctggtac tgtccctgca ggcgtgcggc 660  
 cggctgtatg tgggccagcg ccactattcc gccttcgagt gcgccgtgtt gtgtctctac 720

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ctgctgtacc gaaacacgca cggggccgccc gacgatagcg accgcgctcc gggtcacgttc 780
ggggatctgc tgggcccggct gccccgctac ctggcgctgcc tggccgcgggt gatcgggacc 840
gagggcggcc ggccacagta ccgctaccgc gacgacaagc tccccaaagac gcagttcgcg 900
gccggcgggg gccgctacga acacggagcg ctggcgctcgc acatcgatgat cgccacgctg 960
atgcaccacg ggggtgctccc ggcgggccccg ggggacgtcc cccggggacgc gagtaccacac 1020
gttaaccccg acggcgctggc gcaccacgac gacataaacc gcgcgcgcgc cgcggttcctc 1080
agccggggcc acaacctatt cctgtgggag gaccagactc tgctgcgggc aaccgcgaac 1140
accataacgg ccctgggcgt tatccagcgg ctctctcgca acggcaacgt gtacgcggac 1200
cgctcaaca accgcctgca gctgggcatg ctgatccccg gagccgtccc ttcggaggcc 1260
atgcgccgtg gggcctccgg gtccgactcg ggggccatca agagcggaga caacaatctg 1320
gaggcgctat gtgccaatta cgtgcttcgg ctgtaccggg ccgacccggc ggtcgagctg 1380
acccagctgt tccccggcct ggccgcctcg tgtcttgacg cccaggcggg gcggccggtc 1440
gggtcgacgc ggcggggtggt ggatatgtca tcggggggccc gccaggcggc gctgggtgcg 1500
ctcaccgccc tggaactcat caaccgcacc cgcacaaacc ccaccctgt gggggagggt 1560
atccacgccc acgacgccct ggcgatccaa tacgaacagg ggcttggcct gctggcgag 1620
caggcacgca ttggcttggg ctccaacacc aagcgtttct ccgcgttcaa cgtttagcag 1680
gactacgaca tggtgtactt tttatgtctg gggttcattc cacagtacct gtcggcgggt 1740
tag 1743

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<210> 52  
 <211> 580  
 <212> PRT  
 <213> Herpes Virus

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<400> 52
Met Asp Pro Tyr Cys Pro Phe Asp Ala Leu Asp Val Trp Glu His Arg
  1             5             10            15

Arg Phe Ile Val Ala Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro
      20             25             30

Arg Asp Phe Trp Met Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala
      35             40             45

Ala Glu Gln Val Val Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala
      50             55             60

Ala Leu Glu Asn Ala Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile
      65             70             75             80

Glu Arg Arg Leu Arg Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly
      85             90             95

Ala Leu Glu Ala Leu Glu Thr Ala Ala Ala Ala Glu Glu Ala Asp
      100            105            110

Ala Ala Arg Gly Asp Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro
      115            120            125

Pro Gly Leu Ala Val Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp
      130            135            140

Pro Pro Leu Arg Tyr Asp Thr Asn Leu Pro Val Asp Leu Leu His Met
      145            150            155            160

Val Tyr Ala Gly Arg Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly

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165								170				175			
Thr	Trp	Tyr	Arg	Thr	Ile	Gln	Asp	Arg	Thr	Ile	Thr	Asp	Phe	Pro	Leu
			180				185						190		
Thr	Thr	Arg	Ser	Ala	Asp	Phe	Arg	Asp	Gly	Arg	Met	Ser	Lys	Thr	Phe
			195				200						205		
Met	Thr	Ala	Leu	Val	Leu	Ser	Leu	Gln	Ala	Cys	Gly	Arg	Leu	Tyr	Val
			210				215						220		
Gly	Gln	Arg	His	Tyr	Ser	Ala	Phe	Glu	Cys	Ala	Val	Leu	Cys	Leu	Tyr
			225				230						235		
Leu	Leu	Tyr	Arg	Asn	Thr	His	Gly	Ala	Ala	Asp	Asp	Ser	Asp	Arg	Ala
			245				250						255		
Pro	Val	Thr	Phe	Gly	Asp	Leu	Leu	Gly	Arg	Leu	Pro	Arg	Tyr	Leu	Ala
			260				265						270		
Cys	Leu	Ala	Ala	Val	Ile	Gly	Thr	Glu	Gly	Gly	Arg	Pro	Gln	Tyr	Arg
			275				280						285		
Tyr	Arg	Asp	Asp	Lys	Leu	Pro	Lys	Thr	Gln	Phe	Ala	Ala	Gly	Gly	Gly
			290				295						300		
Arg	Tyr	Glu	His	Gly	Ala	Leu	Ala	Ser	His	Ile	Val	Ile	Ala	Thr	Leu
			305				310						315		
Met	His	His	Gly	Val	Leu	Pro	Ala	Ala	Pro	Gly	Asp	Val	Pro	Arg	Asp
			325				330						335		
Ala	Ser	Thr	His	Val	Asn	Pro	Asp	Gly	Val	Ala	His	His	Asp	Asp	Ile
			340				345						350		
Asn	Arg	Ala	Ala	Ala	Ala	Phe	Leu	Ser	Arg	Gly	His	Asn	Leu	Phe	Leu
			355				360						365		
Trp	Glu	Asp	Gln	Thr	Leu	Leu	Arg	Ala	Thr	Ala	Asn	Thr	Ile	Thr	Ala
			370				375						380		
Leu	Gly	Val	Ile	Gln	Arg	Leu	Leu	Ala	Asn	Gly	Asn	Val	Tyr	Ala	Asp
			385				390						395		
Arg	Leu	Asn	Asn	Arg	Leu	Gln	Leu	Gly	Met	Leu	Ile	Pro	Gly	Ala	Val
			405				410						415		
Pro	Ser	Glu	Ala	Ile	Ala	Arg	Gly	Ala	Ser	Gly	Ser	Asp	Ser	Gly	Ala
			420				425						430		
Ile	Lys	Ser	Gly	Asp	Asn	Asn	Leu	Glu	Ala	Leu	Cys	Ala	Asn	Tyr	Val
			435				440						445		
Leu	Pro	Leu	Tyr	Arg	Ala	Asp	Pro	Ala	Val	Glu	Leu	Thr	Gln	Leu	Phe
			450				455						460		
Pro	Gly	Leu	Ala	Ala	Leu	Cys	Leu	Asp	Ala	Gln	Ala	Gly	Arg	Pro	Val

465                      470                      475                      480  
 Gly Ser Thr Arg Arg Val Val Asp Met Ser Ser Gly Ala Arg Gln Ala  
                                  485                      490                      495  
 Ala Leu Val Arg Leu Thr Ala Leu Glu Leu Ile Asn Arg Thr Arg Thr  
                                  500                      505                      510  
 Asn Pro Thr Pro Val Gly Glu Val Ile His Ala His Asp Ala Leu Ala  
                                  515                      520                      525  
 Ile Gln Tyr Glu Gln Gly Leu Gly Leu Leu Ala Gln Gln Ala Arg Ile  
                                  530                      535                      540  
 Gly Leu Gly Ser Asn Thr Lys Arg Phe Ser Ala Phe Asn Val Ser Ser  
                                  545                      550                      555                      560  
 Asp Tyr Asp Met Leu Tyr Phe Leu Cys Leu Gly Phe Ile Pro Gln Tyr  
                                  565                      570                      575  
 Leu Ser Ala Val  
                                  580

<210> 53  
 <211> 683  
 <212> DNA  
 <213> Herpes Virus

<400> 53  
 gtgtaccggt acgacgagtt tgtgttggcg actggcgact ttgtgtacat gtccccgttt 60  
 tacggctacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 120  
 caggctcgacg gcttctacgc gcgcgacctc accaccaagg cccggggccac ggcgccgacc 180  
 acccggaacc tgctcacgac ccccaagttc accgtggcct gggactgggt gccaaagcgc 240  
 ccgtcgggtct gcaccatgac caagtggcag gaggtggacg agatgctgcg ctccgagtac 300  
 ggcggctcct tccgattctc ttccgacgcc atatccacca ctttcaccac caacctgacc 360  
 gagtaccgcg tctcgcgcgt ggacctgggg gactgcatcg gcaaggacgc ccgcgacgcc 420  
 atggaccgca tcttcgcccg caggtacaac gcgacgcaca tcaaggtggg ccagccgcag 480  
 tactacctgg ccaatggggg ctttctgatc gcgtaccagc cccttctcag caacacgctc 540  
 gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagccccc aaaccccacg 600  
 cccccgccgc ccggggccag cgccaacgcg tccgtggagc gcatcaagac cacctcctcc 660  
 atcgagttcg ccaggctgca gtt 683

<210> 54  
 <211> 227  
 <212> PRT  
 <213> Herpes Virus

<400> 54  
 Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp Phe Val Tyr  
   1                      5                      10                      15  
 Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr  
                                  20                      25                      30  
 Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe Tyr Ala Arg



35                      40                      45  
 Asp Leu Thr Thr Lys Ala Arg Ala Thr Ala Pro Thr Thr Arg Asn Leu  
     50                      55                      60  
 Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val Pro Lys Arg  
     65                      70                      75                      80  
 Pro Ser Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp Glu Met Leu  
                     85                      90                      95  
 Arg Ser Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp Ala Ile Ser  
                     100                      105                      110  
 Thr Thr Phe Thr Thr Asn Leu Thr Glu Tyr Pro Leu Ser Arg Val Asp  
                     115                      120                      125  
 Leu Gly Asp Cys Ile Gly Lys Asp Ala Arg Asp Ala Met Asp Arg Ile  
                     130                      135                      140  
 Phe Ala Arg Arg Tyr Asn Ala Thr His Ile Lys Val Gly Gln Pro Gln  
     145                      150                      155                      160  
 Tyr Tyr Leu Ala Asn Gly Gly Phe Leu Ile Ala Tyr Gln Pro Leu Leu  
                     165                      170                      175  
 Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu His Leu Arg Glu Gln  
                     180                      185                      190  
 Ser Arg Lys Pro Pro Asn Pro Thr Pro Pro Pro Pro Gly Ala Ser Ala  
                     195                      200                      205  
 Asn Ala Ser Val Glu Arg Ile Lys Thr Thr Ser Ser Ile Glu Phe Ala  
                     210                      215                      220  
 Arg Leu Gln  
 225

<210> 55  
 <211> 2715  
 <212> DNA  
 <213> Herpes Virus

<400> 55  
 atgcgccagg gcgccccgc gcggggggcg cggtggttcg tcgtatgggc gctcttgggg 60  
 ttgacgctgg gggtcctggt ggcgtcggcg gctccgagtt cccccggcac gcctgggggtc 120  
 gcggccgcga ccagggcggc gaacgggggc cctgccactc cggcgccgcc cgcccctggc 180  
 gcccccccaa cgggggaccc gaaaccgaag aagaacagaa aaccgaaacc cccaaagccg 240  
 ccgcgccccg ccggcgacaa cgcgaccgtc gccgcgggcc acgccaccct gcgcgagcac 300  
 ctgcgggaca tcaaggcgga gaacaccgat gcaaactttt acgtgtgccc accccccacg 360  
 ggcgccacgg tgggtgcagtt cgagcagccg cgccgctgcc cgacccggcc cgagggtcag 420  
 aactacacgg agggcatcgc ggtggtcttc aaggagaaca tcgccccgta caagttcaag 480  
 gccaccatgt actacaaaga cgtcaccgtt tcgcaggtgt ggttcggcca ccgctactcc 540  
 cagtttatgg ggatctttga ggaccgcgcc cccgtcccct tcgaggaggt gatcgacaag 600  
 atcaacgcca aggggggtctg tcggtccacg gccaaagtac tgcgcaacaa cctggagacc 660  
 accgcgtttc accgggacga ccacgagacc gacatggagc tgaaaccggc caacgccgcg 720

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accgcacga gccggggctg gcacaccacc gacctcaagt acaaccctc gcgggtggag 780
gcgttccacc ggtacgggac gacggtaaac tgcacgctcg aggaggtgga cgcgcgctcg 840
gtgtacccgt acgacgagtt tgtgttggcg actggcgact ttgtgtacat gtccccgttt 900
tacggctacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 960
caggtcgacg gcttctacgc gcgcgacctc accaccaagg cccggggccac ggcgccgacc 1020
accggaacc tgctcacgac ccccaagttc accgtggcct gggactgggt gccaaagcgc 1080
ccgtcgggtct gcaccatgac caagtggcag gaggtggacg agatgctgcg ctccgagtac 1140
ggcggctcct tccgattctc ttccgacgcc atatccacca ccttcaccac caacctgacc 1200
gagtaccgcg tctcgcgcgt ggacctgggg gactgcatcg gcaaggacgc ccgcgacgcc 1260
atggaccgca tcttcgcccg caggtacaac gcgacgcaca tcaaggtggg ccagccgcag 1320
tactacctgg ccaatggggg ctttctgata gcgtaccagc cccttctcag caacacgctc 1380
gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagccccc aaacccacg 1440
cccccgccgc ccggggccag cgccaacgcg tccgtggagc gcatcaagac cacctcctcc 1500
atcgagttcg ccaggctgca gtttacgtac aaccacatac agcgccatgt caacgatatg 1560
ttgggcccgc ttgccatcgc gtggtgcgag ctgcagaatc acgagctgac cctgtggaac 1620
gaggcccgca agctgaaccc caacgccatc gcctcggccca ccgtgggccc gcggtgagc 1680
gcgcggatgc tcggcgacgt gatggccgtc tccacgtgcg tgccggtcgc cgcggacaac 1740
gtgatcgtcc aaaactcgat gcgcacagc tcgcggcccg gggcctgcta cagccgcccc 1800
ctggtcagct ttcggtacga agaccagggc ccgttggtcg aggggcagct gggggagAAC 1860
aacgagctgc ggctgacgcg cgatgcgata gagccgtgca ccgtgggaca ccggcgctac 1920
ttcaccttcg gtgggggcta cgtgtacttc gaggagtacg cgtactccca ccagctgagc 1980
cgcgccgaca tcaccaccgt cagcaccttc atcgacctca acatcaccat gctggaggat 2040
cacgagtttg tccccctgga ggtgtacacc cgccacgaga tcaaggacag cggcctgctg 2100
gactacacgg aggtccagcg ccgcaaccag ctgcacgacc tgcgcttcgc cgacatcgac 2160
acggtcatcc acgccgacgc caacgccgcc atgtttgcgg gcctgggcgc gttcttcgag 2220
gggatgggcg acctggggcg cgcggtcggc aaggtggtga tgggcatcgt gggcggcgtg 2280
gtatcgggcg tgcgggcgt gtctctcttc atgtccaacc cctttggggc gctggccgtg 2340
ggtctgttg tcttgccgg cctggcggcg gccttcttcg cctttcgcta cgtcatgcgg 2400
ctgcagagca acccatgaa ggccctgtac ccgtaacca ccaaggagct caagaacccc 2460
accaaccgg acgcgtccg ggagggcgag gagggcgcg actttgacga ggccaagcta 2520
gccgagggcc gggagatgat acggtacatg gccctggtgt ctgcatgga gcgcacggaa 2580
cacaaggcca agaagaagg cacgagcgcg ctgctcagcg ccaaggtcac cgacatggtc 2640
atgcgcaagc gccgcaacac caactacacc caagttccca acaaagacgg tgacgccgac 2700
gaggacgacc tgtga 2715

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<210> 56  
 <211> 904  
 <212> PRT  
 <213> Herpes Virus

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<400> 56
Met Arg Gln Gly Ala Pro Ala Arg Gly Cys Arg Trp Phe Val Val Trp
  1              5              10             15

Ala Leu Leu Gly Leu Thr Leu Gly Val Leu Val Ala Ser Ala Ala Pro
  20              25              30

Ser Ser Pro Gly Thr Pro Gly Val Ala Ala Ala Thr Gln Ala Ala Asn
  35              40              45

Gly Gly Pro Ala Thr Pro Ala Pro Pro Ala Leu Gly Ala Ala Pro Thr
  50              55              60

Gly Asp Pro Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Thr Pro
  65              70              75              80

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Pro	Arg	Pro	Ala	Gly	Asp	Asn	Ala	Thr	Val	Ala	Ala	Gly	His	Ala	Thr	85	90	95	
Leu	Arg	Glu	His	Leu	Arg	Asp	Ile	Lys	Ala	Glu	Asn	Thr	Asp	Ala	Asn	100	105	110	
Phe	Tyr	Val	Cys	Pro	Pro	Pro	Thr	Gly	Ala	Thr	Val	Val	Gln	Phe	Glu	115	120	125	
Gln	Pro	Arg	Arg	Cys	Pro	Thr	Arg	Pro	Glu	Gly	Gln	Asn	Tyr	Thr	Glu	130	135	140	
Gly	Ile	Ala	Val	Val	Phe	Lys	Glu	Asn	Ile	Ala	Pro	Tyr	Lys	Phe	Lys	145	150	155	160
Ala	Thr	Met	Tyr	Tyr	Lys	Asp	Val	Thr	Val	Ser	Gln	Val	Trp	Phe	Gly	165	170	175	
His	Arg	Tyr	Ser	Gln	Phe	Met	Gly	Ile	Phe	Glu	Asp	Arg	Ala	Pro	Val	180	185	190	
Pro	Phe	Glu	Glu	Val	Ile	Asp	Lys	Ile	Asn	Ala	Lys	Gly	Val	Cys	Arg	195	200	205	
Ser	Thr	Ala	Lys	Tyr	Val	Arg	Asn	Asn	Leu	Glu	Thr	Thr	Ala	Phe	His	210	215	220	
Arg	Asp	Asp	His	Glu	Thr	Asp	Met	Glu	Leu	Lys	Pro	Ala	Asn	Ala	Ala	225	230	235	240
Thr	Arg	Thr	Ser	Arg	Gly	Trp	His	Thr	Thr	Asp	Leu	Lys	Tyr	Asn	Pro	245	250	255	
Ser	Arg	Val	Glu	Ala	Phe	His	Arg	Tyr	Gly	Thr	Thr	Val	Asn	Cys	Ile	260	265	270	
Val	Glu	Glu	Val	Asp	Ala	Arg	Ser	Val	Tyr	Pro	Tyr	Asp	Glu	Phe	Val	275	280	285	
Leu	Ala	Thr	Gly	Asp	Phe	Val	Tyr	Met	Ser	Pro	Phe	Tyr	Gly	Tyr	Arg	290	295	300	
Glu	Gly	Ser	His	Thr	Glu	His	Thr	Ser	Tyr	Ala	Ala	Asp	Arg	Phe	Lys	305	310	315	320
Gln	Val	Asp	Gly	Phe	Tyr	Ala	Arg	Asp	Leu	Thr	Thr	Lys	Ala	Arg	Ala	325	330	335	
Thr	Ala	Pro	Thr	Thr	Arg	Asn	Leu	Leu	Thr	Thr	Pro	Lys	Phe	Thr	Val	340	345	350	
Ala	Trp	Asp	Trp	Val	Pro	Lys	Arg	Pro	Ser	Val	Cys	Thr	Met	Thr	Lys	355	360	365	
Trp	Gln	Glu	Val	Asp	Glu	Met	Leu	Arg	Ser	Glu	Tyr	Gly	Gly	Ser	Phe	370	375	380	

Arg	Phe	Ser	Ser	Asp	Ala	Ile	Ser	Thr	Thr	Phe	Thr	Thr	Asn	Leu	Thr	385	390	395	400
Glu	Tyr	Pro	Leu	Ser	Arg	Val	Asp	Leu	Gly	Asp	Cys	Ile	Gly	Lys	Asp	405	410	415	
Ala	Arg	Asp	Ala	Met	Asp	Arg	Ile	Phe	Ala	Arg	Arg	Tyr	Asn	Ala	Thr	420	425	430	
His	Ile	Lys	Val	Gly	Gln	Pro	Gln	Tyr	Tyr	Leu	Ala	Asn	Gly	Gly	Phe	435	440	445	
Leu	Ile	Ala	Tyr	Gln	Pro	Leu	Leu	Ser	Asn	Thr	Leu	Ala	Glu	Leu	Tyr	450	455	460	
Val	Arg	Glu	His	Leu	Arg	Glu	Gln	Ser	Arg	Lys	Pro	Pro	Asn	Pro	Thr	465	470	475	480
Pro	Pro	Pro	Pro	Gly	Ala	Ser	Ala	Asn	Ala	Ser	Val	Glu	Arg	Ile	Lys	485	490	495	
Thr	Thr	Ser	Ser	Ile	Glu	Phe	Ala	Arg	Leu	Gln	Phe	Thr	Tyr	Asn	His	500	505	510	
Ile	Gln	Arg	His	Val	Asn	Asp	Met	Leu	Gly	Arg	Val	Ala	Ile	Ala	Trp	515	520	525	
Cys	Glu	Leu	Gln	Asn	His	Glu	Leu	Thr	Leu	Trp	Asn	Glu	Ala	Arg	Lys	530	535	540	
Leu	Asn	Pro	Asn	Ala	Ile	Ala	Ser	Ala	Thr	Val	Gly	Arg	Arg	Val	Ser	545	550	555	560
Ala	Arg	Met	Leu	Gly	Asp	Val	Met	Ala	Val	Ser	Thr	Cys	Val	Pro	Val	565	570	575	
Ala	Ala	Asp	Asn	Val	Ile	Val	Gln	Asn	Ser	Met	Arg	Ile	Ser	Ser	Arg	580	585	590	
Pro	Gly	Ala	Cys	Tyr	Ser	Arg	Pro	Leu	Val	Ser	Phe	Arg	Tyr	Glu	Asp	595	600	605	
Gln	Gly	Pro	Leu	Val	Glu	Gly	Gln	Leu	Gly	Glu	Asn	Asn	Glu	Leu	Arg	610	615	620	
Leu	Thr	Arg	Asp	Ala	Ile	Glu	Pro	Cys	Thr	Val	Gly	His	Arg	Arg	Tyr	625	630	635	640
Phe	Thr	Phe	Gly	Gly	Gly	Tyr	Val	Tyr	Phe	Glu	Glu	Ser	Ala	Tyr	Ser	645	650	655	
His	Gln	Leu	Ser	Arg	Ala	Asp	Ile	Thr	Thr	Val	Ser	Thr	Phe	Ile	Asp	660	665	670	
Leu	Asn	Ile	Thr	Met	Leu	Glu	Asp	His	Glu	Phe	Val	Pro	Leu	Glu	Val	675	680	685	

Tyr Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu  
 690 695 700  
 Val Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp  
 705 710 715 720  
 Thr Val Ile His Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Gly  
 725 730 735  
 Ala Phe Phe Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val  
 740 745 750  
 Val Met Gly Ile Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser  
 755 760 765  
 Ser Phe Met Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val  
 770 775 780  
 Leu Ala Gly Leu Ala Ala Ala Phe Phe Ala Phe Arg Tyr Val Met Arg  
 785 790 795 800  
 Leu Gln Ser Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu  
 805 810 815  
 Leu Lys Asn Pro Thr Asn Pro Asp Ala Ser Gly Glu Gly Glu Glu Gly  
 820 825 830  
 Gly Asp Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg  
 835 840 845  
 Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Lys  
 850 855 860  
 Lys Lys Gly Thr Ser Ala Leu Leu Ser Ala Lys Val Thr Asp Met Val  
 865 870 875 880  
 Met Arg Lys Arg Arg Asn Thr Asn Tyr Thr Gln Val Pro Asn Lys Asp  
 885 890 895  
 Gly Asp Ala Asp Glu Asp Asp Leu  
 900

<210> 57  
 <211> 1814  
 <212> DNA  
 <213> Herpes Virus

<400> 57  
 ctgctagagt acgcgtggcg cgagggcgag cggctcctgg gcagcctgga gacgttcgcg 60  
 accgcgggag acgtcgcggc gtttttcacg gagaccatgg gcctggccc accctgtccg 120  
 tatcaccaac gggtcaggct ggatacgtat ggcgggaccg tccatatgga gctgtgtttc 180  
 ctgcacgacg tcgagaactt tctaaagcag ctaaactact gccacctcat caccctctcg 240  
 cgcggcgcca ccgccgcgct ggagcgcggt cgggagttta tgggtgggggc ggtgggggtcg 300  
 ggccttatcg tcccccgga gcttagcgac ccgtcccacc cctgcgcggt ctgtttcgag 360  
 gaactgtgtg tgacggcgaa ccagggggcg acgatcgccc gccgcctggc ggaccgtatc 420  
 tgtaaccacg tcaccagca ggcgcaggtg cggctggacg ccaacgagct gcggcggtag 480

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ctgccccacg ccgcccgggt gtcggacgcc gaccgcgcgc gggcgctctc cgtgttggac 540
catgcgctgg cccggaccgc ggggggagac gggcagcccc acccgtcgcc cgagaacgac 600
tcggtccgca aggaggccga cgcctgctg gaggcgcacg acgtgtttca ggccaccacg 660
cccggcctgt acgccatcag cgaattgca ttctggctcg cgtccggcga ccgcgcgggc 720
cagaccacca tggacgcgtt tgccagcaac ctgaccgcgc tggcgcgggc cgagttgcag 780
caggagaccg ccgcgggtggc cgtggaactg gcgctgttcg ggcggcgggc ggagcatttc 840
gatcgcgctg tcgggagcca cctggcgggc ctggatatgg tggacgccct aataatcggc 900
ggtcaggcca cgtcaccga cgatcagatc gaggcgctca tccgcgcgtg ctacgaccac 960
cacctgacga cgcgctctt gcggcgctc gtcagccccg aacagtgcga cgaggaggcg 1020
ctgcgtcgcg tgctggcgcg catggggcg gggggcgcg cgacgcgc caagggcggc 1080
gcgggccccg acgacgacg ggaccgtgtc gccgtagagg aaggggcacg ggggttggga 1140
gctccccggg cggggggcga ggacgaagac cgtcgccgcg gggcggggg gcagggggcc 1200
gagacgtggg gggacatcgc cacgcaagcg gcccgggacg tgcgggagcg acggcggtcg 1260
tacgcggacc gcctgacgaa gcggtcggtg gccagcctgg ggcgctgct ccgcgagcag 1320
cgcggggagc tcgagaagat gctgcgggtc agcgtccacg gcgaggtgct gcccgcgacg 1380
ttcgcccgcg tcgccaacgg ctttgcgggc cgcgcgcgct tctgcgccct gacggcgggc 1440
gcgggcacgg tcatcgacaa ccgctcggcg ccgggcgtgt tcgacgcgca ccggttcag 1500
cgagcgtctc tctgcgaca ccaggtggac ccggccctgc tcccagcat caccatcgc 1560
ttcttcgagc tcgtcaacgg gcccctcttt gatcactcca cccacagctt cggccagccc 1620
cccaacaccg cgctgtatta cagcgtcgag aacgtggggc tcctgccgca cctgaaggag 1680
gagctcgccc ggttcacatc gggggcgggg ggctcggtg ctgattgggc cgtcagcgaa 1740
tttcagaggt ttactgttt tgacggcatt tccgaataa cgccactca gcgcgcggcc 1800
tggcgatata ttcg 1814

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<210> 58  
 <211> 604  
 <212> PRT  
 <213> Herpes Virus

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<400> 58
Leu Leu Glu Tyr Ala Trp Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu
  1              5              10              15

Glu Thr Phe Ala Thr Ala Gly Asp Val Ala Ala Phe Phe Thr Glu Thr
      20              25              30

Met Gly Leu Ala Arg Pro Cys Pro Tyr His Gln Arg Val Arg Leu Asp
      35              40              45

Thr Tyr Gly Gly Thr Val His Met Glu Leu Cys Phe Leu His Asp Val
      50              55              60

Glu Asn Phe Leu Lys Gln Leu Asn Tyr Cys His Leu Ile Thr Pro Ser
      65              70              75              80

Arg Gly Ala Thr Ala Ala Leu Glu Arg Val Arg Glu Phe Met Val Gly
      85              90              95

Ala Val Gly Ser Gly Leu Ile Val Pro Pro Glu Leu Ser Asp Pro Ser
      100             105             110

His Pro Cys Ala Val Cys Phe Glu Glu Leu Cys Val Thr Ala Asn Gln
      115             120             125

Gly Ala Thr Ile Ala Arg Arg Leu Ala Asp Arg Ile Cys Asn His Val
      130             135             140

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Thr	Gln	Gln	Ala	Gln	Val	Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg	Arg	Tyr	145	150	155	160
Leu	Pro	His	Ala	Ala	Gly	Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg	Ala	Leu	165	170	175	
Ser	Val	Leu	Asp	His	Ala	Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp	Gly	Gln	180	185	190	
Pro	His	Pro	Ser	Pro	Glu	Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	Asp	Ala	195	200	205	
Leu	Leu	Glu	Ala	His	Asp	Val	Phe	Gln	Ala	Thr	Thr	Pro	Gly	Leu	Tyr	210	215	220	
Ala	Ile	Ser	Glu	Leu	Arg	Phe	Trp	Leu	Ala	Ser	Gly	Asp	Arg	Ala	Gly	225	230	235	240
Gln	Thr	Thr	Met	Asp	Ala	Phe	Ala	Ser	Asn	Leu	Thr	Ala	Leu	Ala	Arg	245	250	255	
Arg	Glu	Leu	Gln	Gln	Glu	Thr	Ala	Ala	Val	Ala	Val	Glu	Leu	Ala	Leu	260	265	270	
Phe	Gly	Arg	Arg	Ala	Glu	His	Phe	Asp	Arg	Ala	Phe	Gly	Ser	His	Leu	275	280	285	
Ala	Ala	Leu	Asp	Met	Val	Asp	Ala	Leu	Ile	Ile	Gly	Gly	Gln	Ala	Thr	290	295	300	
Ser	Pro	Asp	Asp	Gln	Ile	Glu	Ala	Leu	Ile	Arg	Ala	Cys	Tyr	Asp	His	305	310	315	320
His	Leu	Thr	Thr	Pro	Leu	Leu	Arg	Arg	Leu	Val	Ser	Pro	Glu	Gln	Cys	325	330	335	
Asp	Glu	Glu	Ala	Leu	Arg	Arg	Val	Leu	Ala	Arg	Met	Gly	Ala	Gly	Gly	340	345	350	
Ala	Ala	Asp	Ala	Pro	Lys	Gly	Gly	Ala	Gly	Pro	Asp	Asp	Asp	Gly	Asp	355	360	365	
Arg	Val	Ala	Val	Glu	Glu	Gly	Ala	Arg	Gly	Leu	Gly	Ala	Pro	Gly	Gly	370	375	380	
Gly	Gly	Glu	Asp	Glu	Asp	Arg	Arg	Arg	Gly	Pro	Gly	Gly	Gln	Gly	Pro	385	390	395	400
Glu	Thr	Trp	Gly	Asp	Ile	Ala	Thr	Gln	Ala	Ala	Ala	Asp	Val	Arg	Glu	405	410	415	
Arg	Arg	Arg	Leu	Tyr	Ala	Asp	Arg	Leu	Thr	Lys	Arg	Ser	Leu	Ala	Ser	420	425	430	
Leu	Gly	Arg	Cys	Val	Arg	Glu	Gln	Arg	Gly	Glu	Leu	Glu	Lys	Met	Leu	435	440	445	

Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr Phe Ala Ala Val  
450 455 460

Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala Leu Thr Ala Gly  
465 470 475 480

Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly Val Phe Asp Ala  
485 490 495

His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp Pro Ala  
500 505 510

Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn Gly Pro  
515 520 525

Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn Thr Ala  
530 535 540

Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu Lys Glu  
545 550 555 560

Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala Asp Trp  
565 570 575

Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile Ser Gly  
580 585 590

Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile  
595 600

<210> 59  
<211> 1068  
<212> DNA  
<213> Herpes Virus

<400> 59  
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ccccaaactga agctgaacgc gcttcagggtg cgggcgctgc ggcgtcgtct gaggccgggc 120  
ctggaggccc aggcgggggc ctttctcacc ccgctgtcgg tcaccctgga gttgtctgcta 180  
gagtacgcgt ggcgcgaggg cgagcggctc ctgggcagcc tggagacgtt cgcgaccgcg 240  
ggagacgtcg cggcggtttt cacggagacc atgggcctgg cccgaccctg tccgtatcac 300  
caacgggtca ggctggatac gtatggcggg accgtccata tggagctgtg tttcctgcac 360  
gacgtcgaga actttctaaa gcagctaaac tactgccacc tcataccccc ctgcgcgggc 420  
gccaccgccg cgtggagcg cgttcgggag tttatggtgg gggcgggtggg gtcgggcctt 480  
atcgcccc cggagcttag cgaccgctc caccctgcg cggctctggt cgaggaaactg 540  
tgtgtgacgg cgaaccaggg ggcgacgatc gcccgcgcgc tggcggaccg tatctgtaac 600  
cacgtcaccc agcaggcgca ggtgcggctg gacgccaacg agctgcggcg gtacctgcc 660  
cacgccgcg ggctgtcgga cgccgaccgc gcgcgggcgc tctcgtgtt ggaccatgcg 720  
ctggcccga ccgcggggg cgacgggcag cccacccgt cggccgagaa cgactcggtc 780  
cgcaaggagg ccgacgccct gctggaggcg cagcagctgt ttcaggccac cagccccggc 840  
ctgtacgcca tcagcgaatt gcgattctgg ctgcgctccg gcgaccgcgc cggccagacc 900  
accatggacg cgtttgccag caacctgacc gcgctggcgc ggcgcgagtt gcagcaggag 960  
accgccgcg tggcgtgga actggcgtg ttcgggcggc gggcggagca tttcgatcgc 1020  
gcgttcggga gccacctggc ggcgctggat atggtggac ccctaata 1068



<210> 60  
 <211> 356  
 <212> PRT  
 <213> Herpes Virus

<400> 60  
 Tyr Val Phe Gln Ile Glu Leu Leu Arg Arg Cys Asp Pro His Ile Gly  
           1                  5                  10                  15  
 Arg Gly Lys Leu Pro Gln Leu Lys Leu Asn Ala Leu Gln Val Arg Ala  
                   20                  25                  30  
 Leu Arg Arg Arg Leu Arg Pro Gly Leu Glu Ala Gln Ala Gly Ala Phe  
                   35                  40                  45  
 Leu Thr Pro Leu Ser Val Thr Leu Glu Leu Leu Leu Glu Tyr Ala Trp  
           50                  55                  60  
 Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu Glu Thr Phe Ala Thr Ala  
           65                  70                  75                  80  
 Gly Asp Val Ala Ala Phe Phe Thr Glu Thr Met Gly Leu Ala Arg Pro  
                   85                  90                  95  
 Cys Pro Tyr His Gln Arg Val Arg Leu Asp Thr Tyr Gly Gly Thr Val  
                   100                  105                  110  
 His Met Glu Leu Cys Phe Leu His Asp Val Glu Asn Phe Leu Lys Gln  
           115                  120                  125  
 Leu Asn Tyr Cys His Leu Ile Thr Pro Ser Arg Gly Ala Thr Ala Ala  
           130                  135                  140  
 Leu Glu Arg Val Arg Glu Phe Met Val Gly Ala Val Gly Ser Gly Leu  
           145                  150                  155                  160  
 Ile Val Pro Pro Glu Leu Ser Asp Pro Ser His Pro Cys Ala Val Cys  
                   165                  170                  175  
 Phe Glu Glu Leu Cys Val Thr Ala Asn Gln Gly Ala Thr Ile Ala Arg  
                   180                  185                  190  
 Arg Leu Ala Asp Arg Ile Cys Asn His Val Thr Gln Gln Ala Gln Val  
           195                  200                  205  
 Arg Leu Asp Ala Asn Glu Leu Arg Arg Tyr Leu Pro His Ala Ala Gly  
           210                  215                  220  
 Leu Ser Asp Ala Asp Arg Ala Arg Ala Leu Ser Val Leu Asp His Ala  
           225                  230                  235                  240  
 Leu Ala Arg Thr Ala Gly Gly Asp Gly Gln Pro His Pro Ser Pro Glu  
                   245                  250                  255  
 Asn Asp Ser Val Arg Lys Glu Ala Asp Ala Leu Leu Glu Ala His Asp  
           260                  265                  270

Val Phe Gln Ala Thr Thr Pro Gly Leu Tyr Ala Ile Ser Glu Leu Arg  
 275 280 285  
 Phe Trp Leu Ala Ser Gly Asp Arg Ala Gly Gln Thr Thr Met Asp Ala  
 290 295 300  
 Phe Ala Ser Asn Leu Thr Ala Leu Ala Arg Arg Glu Leu Gln Gln Glu  
 305 310 315 320  
 Thr Ala Ala Val Ala Val Glu Leu Ala Leu Phe Gly Arg Arg Ala Glu  
 325 330 335  
 His Phe Asp Arg Ala Phe Gly Ser His Leu Ala Ala Leu Asp Met Val  
 340 345 350  
 Asp Ala Leu Ile  
 355

<210> 61  
 <211> 369  
 <212> DNA  
 <213> Herpes Virus

<400> 61  
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 gccaacggct ttgcggcgcg cgcgcgcttc tgcgccctga cggcggggcg gggcacggtc 120  
 atcgacaacc gtcggcgcc gggcggtgttc gacgcgcacc ggttcatgcg agcgtctctc 180  
 ctgcgacacc aggtggaccc ggccctgctc cccagcatca cccatcgctt cttcgagctc 240  
 gtcaacgggc ccctctttga tcaactccacc cacagcttcg cccagccccc caacaccgcg 300  
 ctgtattaca gcgtcgagaa cgtggggctc ctgccgcacc tgaaggagga gctcgcccgg 360  
 ttcattcatg 369

<210> 62  
 <211> 123  
 <212> PRT  
 <213> Herpes Virus

<400> 62  
 Glu Lys Met Leu Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr  
 1 5 10 15  
 Phe Ala Ala Val Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala  
 20 25 30  
 Leu Thr Ala Gly Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly  
 35 40 45  
 Val Phe Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln  
 50 55 60  
 Val Asp Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu  
 65 70 75 80  
 Val Asn Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro

Pro Asn Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro  
 100 105 110

His Leu Lys Glu Glu Leu Ala Arg Phe Ile Met  
 115 120

<210> 63

<211> 2358

<212> DNA

<213> Herpes Virus

<400> 63

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caggtgcaga cctatgtgtt tcagatagag ctgctccggc ggtgacgacc ccacatcgga 120
cgggggaagc tcccccaact gaagctgaac gcgcttcagg tgcgggcgct gcggcgctcgt 180
ctgaggccgg gcctggaggc ccaggccggg gcctttctca ccccgctgtc ggtcaccctg 240
gagttgctgc tagagtacgc gtggcgcgag ggcgagcggc tcctgggcag cctggagacg 300
ttcgcgaccg cgggagacgt cgcggcggtt ttcacggaga ccatgggcct ggcccgaccc 360
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cgtatctgta accacgtcac ccagcaggcg cagggtcggc tggacgcaa cgagctgcgg 720
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gttttctcga tcctctactc ggtcctccag cactcgccc ccaggctacc tgacgggggg 2340
cacgacgggc ccccgtag

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<210> 64  
 <211> 785  
 <212> PRT  
 <213> Herpes Virus

<400> 64

Met	Ala	Ala	Pro	Val	Ser	Glu	Pro	Thr	Val	Ala	Arg	Gln	Lys	Leu	Leu
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Ala	Leu	Leu	Gly	Gln	Val	Gln	Thr	Tyr	Val	Phe	Gln	Ile	Glu	Leu	Leu
			20					25					30		
Arg	Arg	Cys	Asp	Pro	His	Ile	Gly	Arg	Gly	Lys	Leu	Pro	Gln	Leu	Lys
		35					40					45			
Leu	Asn	Ala	Leu	Gln	Val	Arg	Ala	Leu	Arg	Arg	Arg	Leu	Arg	Pro	Gly
	50					55					60				
Leu	Glu	Ala	Gln	Ala	Gly	Ala	Phe	Leu	Thr	Pro	Leu	Ser	Val	Thr	Leu
	65				70					75					80
Glu	Leu	Leu	Leu	Glu	Tyr	Ala	Trp	Arg	Glu	Gly	Glu	Arg	Leu	Leu	Gly
				85					90					95	
Ser	Leu	Glu	Thr	Phe	Ala	Thr	Ala	Gly	Asp	Val	Ala	Ala	Phe	Phe	Thr
			100					105					110		
Glu	Thr	Met	Gly	Leu	Ala	Arg	Pro	Cys	Pro	Tyr	His	Gln	Arg	Val	Arg
	115						120					125			
Leu	Asp	Thr	Tyr	Gly	Gly	Thr	Val	His	Met	Glu	Leu	Cys	Phe	Leu	His
	130					135					140				
Asp	Val	Glu	Asn	Phe	Leu	Lys	Gln	Leu	Asn	Tyr	Cys	His	Leu	Ile	Thr
	145				150					155					160
Pro	Ser	Arg	Gly	Ala	Thr	Ala	Ala	Leu	Glu	Arg	Val	Arg	Glu	Phe	Met
			165						170					175	
Val	Gly	Ala	Val	Gly	Ser	Gly	Leu	Ile	Val	Pro	Pro	Glu	Leu	Ser	Asp
			180					185					190		
Pro	Ser	His	Pro	Cys	Ala	Val	Cys	Phe	Glu	Glu	Leu	Cys	Val	Thr	Ala
		195					200					205			
Asn	Gln	Gly	Ala	Thr	Ile	Ala	Arg	Arg	Leu	Ala	Asp	Arg	Ile	Cys	Asn
	210					215					220				
His	Val	Thr	Gln	Gln	Ala	Gln	Val	Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg
	225				230					235					240
Arg	Tyr	Leu	Pro	His	Ala	Ala	Gly	Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg
				245					250					255	
Ala	Leu	Ser	Val	Leu	Asp	His	Ala	Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp
			260					265					270		

Gly	Gln	Pro	His	Pro	Ser	Pro	Glu	Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	
		275					280					285				
Asp	Ala	Leu	Leu	Glu	Ala	His	Asp	Val	Phe	Gln	Ala	Thr	Thr	Pro	Gly	
	290					295					300					
Leu	Tyr	Ala	Ile	Ser	Glu	Leu	Arg	Phe	Trp	Leu	Ala	Ser	Gly	Asp	Arg	
305				310						315				320		
Ala	Gly	Gln	Thr	Thr	Met	Asp	Ala	Phe	Ala	Ser	Asn	Leu	Thr	Ala	Leu	
			325					330						335		
Ala	Arg	Arg	Glu	Leu	Gln	Gln	Glu	Thr	Ala	Ala	Val	Ala	Val	Glu	Leu	
			340					345					350			
Ala	Leu	Phe	Gly	Arg	Arg	Ala	Glu	His	Phe	Asp	Arg	Ala	Phe	Gly	Ser	
	355						360					365				
His	Leu	Ala	Ala	Leu	Asp	Met	Val	Asp	Ala	Leu	Ile	Ile	Gly	Gly	Gln	
	370					375					380					
Ala	Thr	Ser	Pro	Asp	Asp	Gln	Ile	Glu	Ala	Leu	Ile	Arg	Ala	Cys	Tyr	
385				390						395				400		
Asp	His	His	Leu	Thr	Thr	Pro	Leu	Leu	Arg	Arg	Leu	Val	Ser	Pro	Glu	
			405						410					415		
Gln	Cys	Asp	Glu	Glu	Ala	Leu	Arg	Arg	Val	Leu	Ala	Arg	Met	Gly	Ala	
		420					425						430			
Gly	Gly	Ala	Ala	Asp	Ala	Pro	Lys	Gly	Gly	Ala	Gly	Pro	Asp	Asp	Asp	
	435					440						445				
Gly	Asp	Arg	Val	Ala	Val	Glu	Glu	Gly	Ala	Arg	Gly	Leu	Gly	Ala	Pro	
	450					455					460					
Gly	Gly	Gly	Gly	Glu	Asp	Glu	Asp	Arg	Arg	Arg	Gly	Pro	Gly	Gly	Gln	
465				470					475					480		
Gly	Pro	Glu	Thr	Trp	Gly	Asp	Ile	Ala	Thr	Gln	Ala	Ala	Ala	Asp	Val	
			485					490						495		
Arg	Glu	Arg	Arg	Arg	Leu	Tyr	Ala	Asp	Arg	Leu	Thr	Lys	Arg	Ser	Leu	
		500						505					510			
Ala	Ser	Leu	Gly	Arg	Cys	Val	Arg	Glu	Gln	Arg	Gly	Glu	Leu	Glu	Lys	
	515					520						525				
Met	Leu	Arg	Val	Ser	Val	His	Gly	Glu	Val	Leu	Pro	Ala	Thr	Phe	Ala	
	530					535					540					
Ala	Val	Ala	Asn	Gly	Phe	Ala	Ala	Arg	Ala	Arg	Phe	Cys	Ala	Leu	Thr	
545				550					555					560		
Ala	Gly	Ala	Gly	Thr	Val	Ile	Asp	Asn	Arg	Ser	Ala	Pro	Gly	Val	Phe	
			565					570						575		

Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp  
 580 585 590  
 Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn  
 595 600 605  
 Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn  
 610 615 620  
 Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu  
 625 630 635 640  
 Lys Glu Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala  
 645 650 655  
 Asp Trp Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile  
 660 665 670  
 Ser Gly Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile Arg Glu  
 675 680 685  
 Leu Ile Ile Ala Thr Thr Leu Phe Ala Ser Val Tyr Arg Cys Gly Glu  
 690 695 700  
 Leu Glu Leu Arg Arg Pro Asp Cys Ser Arg Pro Thr Ser Glu Gly Arg  
 705 710 715 720  
 Tyr Arg Tyr Pro Pro Gly Val Tyr Leu Thr Tyr Asp Ser Asp Cys Pro  
 725 730 735  
 Leu Val Ala Ile Val Glu Ser Ala Pro Asp Gly Cys Ile Gly Pro Arg  
 740 745 750  
 Ser Val Val Val Tyr Asp Arg Asp Val Phe Ser Ile Leu Tyr Ser Val  
 755 760 765  
 Leu Gln His Leu Ala Pro Arg Leu Pro Asp Gly Gly His Asp Gly Pro  
 770 775 780  
 Pro  
 785

<210> 65

<211> 514

<212> DNA

<213> Herpes Virus

<400> 65

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 ttttacgcgt tcttcctcgt gcccgggacc cacgtggcgg ccaaccaca ggtggaccgc 180  
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 caggaatttg ccggcgagca cctggccatg ctgtgtgggt tttccccggc gctgctggcc 300  
 aagatgctgt tttacctgga gcgctgcgac ggcggcgtga tcgtcgggcg ccaggagatg 360  
 gacgtgtttc gatacgtcgc ggactccaac cagaccgacg tgccctgtaa cctatgcacc 420  
 ttcgacacgc gccacgcctg cgtacacacg acgctcatgc gcctccgggc gcgccatcca 480

aagttcgcca gcgccgcccg cggagccatc ggcg

514

<210> 66  
<211> 171  
<212> PRT  
<213> Herpes Virus

<400> 66  
Tyr Leu Ala Arg Ala Ala Gly Leu Val Gly Ala Met Val Phe Ser Thr  
1 5 10 15  
Asn Ser Ala Leu His Leu Thr Glu Val Asp Asp Ala Gly Pro Ala Asp  
20 25 30  
Pro Lys Asp His Ser Lys Pro Ser Phe Tyr Arg Phe Phe Leu Val Pro  
35 40 45  
Gly Thr His Val Ala Ala Asn Pro Gln Val Asp Arg Glu Gly His Val  
50 55 60  
Val Pro Gly Phe Glu Gly Arg Pro Thr Ala Pro Leu Val Gly Gly Thr  
65 70 75 80  
Gln Glu Phe Ala Gly Glu His Leu Ala Met Leu Cys Gly Phe Ser Pro  
85 90 95  
Ala Leu Leu Ala Lys Met Leu Phe Tyr Leu Glu Arg Cys Asp Gly Gly  
100 105 110  
Val Ile Val Gly Arg Gln Glu Met Asp Val Phe Arg Tyr Val Ala Asp  
115 120 125  
Ser Asn Gln Thr Asp Val Pro Cys Asn Leu Cys Thr Phe Asp Thr Arg  
130 135 140  
His Ala Cys Val His Thr Thr Leu Met Arg Leu Arg Ala Arg His Pro  
145 150 155 160  
Lys Phe Ala Ser Ala Ala Arg Gly Ala Ile Gly  
165 170

<210> 67  
<211> 3591  
<212> DNA  
<213> Herpes Virus

<400> 67  
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agcggcgatt ccgacgtcgc cgtggcgccc ctggctgtgg gacctgaccgt ggagagcggc 180  
tttgaggcca acgtggccgt ggtcgtgggt tctcgcacga cggggctcgg gggtagcgcg 240  
gtgtccctga aactgacgcc ctgcactac agctcgtccg tgtacgtctt tcacggcggc 300  
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<210> 68  
 <211> 1196  
 <212> PRT



<213> Herpes Virus

<400> 68

Met Glu Thr Lys Pro Lys Thr Ala Thr Thr Ile Lys Val Pro Pro Gly  
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Pro Leu Gly Tyr Val Tyr Ala Arg Ala Cys Pro Ser Glu Gly Ile Glu  
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Leu Leu Ala Leu Leu Ser Ala Arg Ser Gly Asp Ala Asp Val Ala Val  
35 40 45

Ala Pro Leu Val Val Gly Leu Thr Val Glu Ser Gly Phe Glu Ala Asn  
50 55 60

Val Ala Val Val Val Gly Ser Arg Thr Thr Gly Leu Gly Gly Thr Ala  
65 70 75 80

Val Ser Leu Lys Leu Thr Pro Ser His Tyr Ser Ser Ser Val Tyr Val  
85 90 95

Phe His Gly Gly Arg His Leu Asp Pro Ser Thr Gln Ala Pro Asn Leu  
100 105 110

Thr Arg Leu Cys Glu Arg Ala Arg Arg His Phe Gly Phe Ser Asp Tyr  
115 120 125

Thr Pro Arg Pro Gly Asp Leu Lys His Glu Thr Thr Gly Glu Ala Leu  
130 135 140

Cys Glu Arg Leu Gly Leu Asp Pro Asp Arg Ala Leu Leu Tyr Leu Val  
145 150 155 160

Val Thr Glu Gly Phe Lys Glu Ala Val Cys Ile Asn Asn Thr Phe Leu  
165 170 175

His Leu Gly Gly Ser Asp Lys Val Thr Ile Gly Gly Ala Glu Val His  
180 185 190

Arg Ile Pro Val Tyr Pro Leu Gln Leu Phe Met Pro Asp Phe Ser Arg  
195 200 205

Val Ile Ala Glu Pro Phe Asn Ala Asn His Arg Ser Ile Gly Glu Asn  
210 215 220

Phe Thr Tyr Pro Leu Pro Phe Phe Asn Arg Pro Leu Asn Arg Leu Leu  
225 230 235 240

Phe Glu Ala Val Val Gly Pro Ala Ala Val Ala Leu Arg Cys Arg Asn  
245 250 255

Val Asp Ala Val Ala Arg Ala Ala Ala His Leu Ala Phe Asp Glu Asn  
260 265 270

His Glu Gly Ala Ala Leu Pro Ala Asp Ile Thr Phe Thr Ala Phe Glu  
275 280 285

Ala	Ser	Gln	Gly	Lys	Thr	Pro	Arg	Gly	Gly	Arg	Asp	Gly	Gly	Gly	Lys	290	295	300
Gly	Pro	Ala	Gly	Gly	Phe	Glu	Gln	Arg	Leu	Ala	Ser	Val	Met	Ala	Gly	305	310	315
Asp	Ala	Ala	Leu	Ala	Leu	Glu	Ser	Ile	Val	Ser	Met	Ala	Val	Phe	Asp	325	330	335
Glu	Pro	Pro	Thr	Asp	Ile	Ser	Ala	Trp	Pro	Leu	Cys	Glu	Gly	Gln	Asp	340	345	350
Thr	Ala	Ala	Ala	Arg	Ala	Asn	Ala	Val	Gly	Ala	Tyr	Leu	Ala	Arg	Ala	355	360	365
Ala	Gly	Leu	Val	Gly	Ala	Met	Val	Phe	Ser	Thr	Asn	Ser	Ala	Leu	His	370	375	380
Leu	Thr	Glu	Val	Asp	Asp	Ala	Gly	Pro	Ala	Asp	Pro	Lys	Asp	His	Ser	385	390	395
Lys	Pro	Ser	Phe	Tyr	Arg	Phe	Phe	Leu	Val	Pro	Gly	Thr	His	Val	Ala	405	410	415
Ala	Asn	Pro	Gln	Val	Asp	Arg	Glu	Gly	His	Val	Val	Pro	Gly	Phe	Glu	420	425	430
Gly	Arg	Pro	Thr	Ala	Pro	Leu	Val	Gly	Gly	Thr	Gln	Glu	Phe	Ala	Gly	435	440	445
Glu	His	Leu	Ala	Met	Leu	Cys	Gly	Phe	Ser	Pro	Ala	Leu	Leu	Ala	Lys	450	455	460
Met	Leu	Phe	Tyr	Leu	Glu	Arg	Cys	Asp	Gly	Gly	Val	Ile	Val	Gly	Arg	465	470	475
Gln	Glu	Met	Asp	Val	Phe	Arg	Tyr	Val	Ala	Asp	Ser	Asn	Gln	Thr	Asp	485	490	495
Val	Pro	Cys	Asn	Leu	Cys	Thr	Phe	Asp	Thr	Arg	His	Ala	Cys	Val	His	500	505	510
Thr	Thr	Leu	Met	Arg	Leu	Arg	Ala	Arg	His	Pro	Lys	Phe	Ala	Ser	Ala	515	520	525
Ala	Arg	Gly	Ala	Ile	Gly	Val	Phe	Gly	Thr	Met	Asn	Ser	Met	Tyr	Ser	530	535	540
Asp	Cys	Asp	Val	Leu	Gly	Asn	Tyr	Ala	Ala	Phe	Ser	Ala	Leu	Lys	Arg	545	550	555
Ala	Asp	Gly	Ser	Glu	Thr	Ala	Arg	Thr	Ile	Met	Gln	Glu	Thr	Tyr	Arg	565	570	575
Ala	Ala	Thr	Glu	Arg	Val	Met	Ala	Glu	Leu	Glu	Thr	Leu	Gln	Tyr	Val	580	585	590

Asp	Gln	Ala	Val	Pro	Thr	Ala	Met	Gly	Arg	Leu	Glu	Thr	Ile	Ile	Thr	595	600	605	
Asn	Arg	Glu	Ala	Leu	His	Thr	Val	Val	Asn	Asn	Val	Arg	Gln	Val	Val	610	615	620	
Asp	Arg	Glu	Val	Glu	Gln	Leu	Met	Arg	Asn	Leu	Val	Glu	Gly	Arg	Asn	625	630	635	640
Phe	Lys	Phe	Arg	Asp	Gly	Leu	Gly	Glu	Ala	Asn	His	Ala	Met	Ser	Leu	645	650	655	
Thr	Leu	Asp	Pro	Tyr	Ala	Cys	Gly	Pro	Cys	Pro	Leu	Leu	Gln	Leu	Leu	660	665	670	
Gly	Arg	Arg	Ser	Asn	Leu	Ala	Val	Tyr	Gln	Asp	Leu	Ala	Leu	Ser	Gln	675	680	685	
Cys	His	Gly	Val	Phe	Ala	Gly	Gln	Ser	Val	Glu	Gly	Arg	Asn	Phe	Arg	690	695	700	
Asn	Gln	Phe	Gln	Pro	Val	Leu	Arg	Arg	Arg	Val	Met	Asp	Met	Phe	Asn	705	710	715	720
Asn	Gly	Phe	Leu	Ser	Ala	Lys	Thr	Leu	Thr	Val	Ala	Leu	Ser	Glu	Gly	725	730	735	
Ala	Ala	Ile	Cys	Ala	Pro	Ser	Leu	Thr	Ala	Gly	Gln	Thr	Ala	Pro	Ala	740	745	750	
Glu	Ser	Ser	Phe	Glu	Gly	Asp	Val	Ala	Arg	Val	Thr	Leu	Gly	Phe	Pro	755	760	765	
Lys	Glu	Leu	Arg	Val	Lys	Ser	Arg	Val	Leu	Phe	Ala	Gly	Ala	Ser	Ala	770	775	780	
Asn	Ala	Ser	Glu	Ala	Ala	Lys	Ala	Arg	Val	Ala	Ser	Leu	Gln	Ser	Ala	785	790	795	800
Tyr	Gln	Lys	Pro	Asp	Lys	Arg	Val	Asp	Ile	Leu	Leu	Gly	Pro	Leu	Gly	805	810	815	
Phe	Leu	Leu	Lys	Gln	Phe	His	Ala	Ala	Ile	Phe	Pro	Asn	Gly	Lys	Pro	820	825	830	
Pro	Gly	Ser	Asn	Gln	Pro	Asn	Pro	Gln	Trp	Phe	Trp	Thr	Ala	Leu	Gln	835	840	845	
Arg	Asn	Gln	Leu	Pro	Ala	Arg	Leu	Leu	Ser	Arg	Glu	Asp	Ile	Glu	Thr	850	855	860	
Ile	Ala	Phe	Ile	Lys	Lys	Phe	Ser	Leu	Asp	Tyr	Gly	Ala	Ile	Asn	Phe	865	870	875	880
Ile	Asn	Leu	Ala	Pro	Asn	Asn	Val	Ser	Glu	Leu	Ala	Met	Tyr	Tyr	Met	885	890	895	

Ala	Asn	Gln	Ile	Leu	Arg	Tyr	Cys	Asp	His	Ser	Thr	Tyr	Phe	Ile	Asn	900	905	910	
Thr	Leu	Thr	Ala	Ile	Ile	Ala	Gly	Ser	Arg	Arg	Pro	Pro	Ser	Val	Gln	915	920	925	
Ala	Ala	Ala	Ala	Trp	Ser	Ala	Gln	Gly	Gly	Ala	Gly	Leu	Glu	Ala	Gly	930	935	940	
Ala	Arg	Ala	Leu	Met	Asp	Ala	Val	Asp	Ala	His	Pro	Gly	Ala	Trp	Thr	945	950	955	960
Ser	Met	Phe	Ala	Ser	Cys	Asn	Leu	Leu	Arg	Pro	Val	Met	Ala	Ala	Arg	965	970	975	
Pro	Met	Val	Val	Leu	Gly	Leu	Ser	Ile	Ser	Lys	Tyr	Tyr	Gly	Met	Ala	980	985	990	
Gly	Asn	Asp	Arg	Val	Phe	Gln	Ala	Gly	Asn	Trp	Ala	Ser	Leu	Met	Gly	995	1000	1005	
Gly	Lys	Asn	Ala	Cys	Pro	Leu	Leu	Ile	Phe	Asp	Arg	Thr	Arg	Lys	Phe	1010	1015	1020	
Val	Leu	Ala	Cys	Pro	Arg	Ala	Gly	Phe	Val	Cys	Ala	Ala	Ser	Asn	Leu	1025	1030	1035	1040
Gly	Gly	Gly	Ala	His	Glu	Ser	Ser	Leu	Cys	Glu	Gln	Leu	Arg	Gly	Ile	1045	1050	1055	
Ile	Ser	Glu	Gly	Gly	Ala	Ala	Val	Ala	Ser	Ser	Val	Phe	Val	Ala	Thr	1060	1065	1070	
Val	Lys	Ser	Leu	Gly	Pro	Arg	Thr	Gln	Gln	Leu	Gln	Ile	Glu	Asp	Trp	1075	1080	1085	
Leu	Ala	Leu	Leu	Glu	Asp	Glu	Tyr	Leu	Ser	Glu	Glu	Met	Met	Glu	Leu	1090	1095	1100	
Thr	Ala	Arg	Ala	Leu	Glu	Arg	Gly	Asn	Gly	Glu	Trp	Ser	Thr	Asp	Ala	1105	1110	1115	1120
Ala	Leu	Glu	Val	Ala	His	Glu	Ala	Glu	Ala	Leu	Val	Ser	Gln	Leu	Gly	1125	1130	1135	
Asn	Ala	Gly	Glu	Val	Phe	Asn	Phe	Gly	Asp	Phe	Gly	Cys	Glu	Asp	Asp	1140	1145	1150	
Asn	Ala	Thr	Pro	Phe	Gly	Gly	Pro	Gly	Ala	Pro	Gly	Pro	Ala	Phe	Ala	1155	1160	1165	
Gly	Arg	Lys	Arg	Ala	Phe	His	Gly	Asp	Asp	Pro	Phe	Gly	Glu	Gly	Pro	1170	1175	1180	
Pro	Asp	Lys	Lys	Gly	Asp	Leu	Thr	Leu	Asp	Met	Leu					1185	1190	1195	

<210> 69  
 <211> 1323  
 <212> DNA  
 <213> Herpes Virus

<400> 69  
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 ctg 1323

<210> 70  
 <211> 441  
 <212> PRT  
 <213> Herpes Virus

<400> 70  
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 Asp Pro Ala Gly Pro Pro Val Ala Glu Ala Gly Glu Asp Asp Gly Pro  
 35 40 45  
 Thr Val Pro Ala Ser Ser Gln Ala Leu Glu Ala Leu Lys Thr Arg Arg  
 50 55 60  
 Ser Pro Glu Pro Pro Gly Ala Asp Leu Ala Gln Leu Phe Glu Ala His  
 65 70 75 80  
 Pro Asn Val Ala Ala Thr Ala Val Lys Phe Thr Ala Cys Ser Ala Ala  
 85 90 95  
 Leu Ala Arg Glu Val Ala Ala Cys Ser Arg Leu Thr Ile Ser Ala Leu

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Arg	Ser	Pro	Tyr	Pro	Ala	Ser	Pro	Gly	Leu	Leu	Glu	Leu	Cys	Val	Ile
115					120					125					
Phe	Phe	Phe	Glu	Arg	Val	Leu	Ala	Phe	Leu	Ile	Glu	Asn	Gly	Ala	Arg
130			135				140								
Thr	His	Thr	Gln	Ala	Gly	Val	Ala	Gly	Pro	Ala	Ala	Ala	Leu	Leu	Glu
145		150				155					160				
Phe	Thr	Leu	Asn	Met	Leu	Pro	Trp	Lys	Thr	Ala	Val	Gly	Asp	Phe	Leu
165					170					175					
Ala	Ser	Thr	Arg	Leu	Ser	Leu	Ala	Asp	Val	Ala	Ala	His	Leu	Pro	Leu
180				185					190						
Val	Gln	His	Val	Leu	Asp	Glu	Asn	Ser	Leu	Ile	Gly	Arg	Leu	Ala	Leu
195			200				205								
Ala	Lys	Leu	Ile	Leu	Val	Ala	Arg	Asp	Val	Ile	Arg	Glu	Thr	Asp	Ala
210		215				220									
Phe	Tyr	Gly	Glu	Leu	Ala	Asp	Leu	Glu	Leu	Gln	Leu	Arg	Ala	Ala	Pro
225		230				235					240				
Pro	Ala	Asn	Leu	Tyr	Thr	Arg	Leu	Gly	Glu	Trp	Leu	Leu	Glu	Arg	Ser
245				250					255						
Gln	Ala	His	Pro	Asp	Thr	Leu	Phe	Ala	Pro	Ala	Thr	Pro	Thr	His	Pro
260			265					270							
Glu	Pro	Leu	Leu	Tyr	Arg	Val	Gln	Ala	Leu	Ala	Lys	Phe	Ala	Arg	Gly
275			280				285								
Glu	Glu	Ile	Arg	Val	Glu	Ala	Glu	Asp	Arg	Gln	Met	Arg	Glu	Ala	Leu
290		295				300									
Asp	Ala	Leu	Ala	Arg	Gly	Val	Asp	Ala	Val	Ser	Gln	His	Ala	Gly	Pro
305		310				315					320				
Leu	Gly	Val	Met	Pro	Ala	Pro	Ala	Gly	Ala	Ala	Pro	Gln	Gly	Ala	Pro
325				330					335						
Arg	Pro	Pro	Pro	Leu	Gly	Pro	Glu	Ala	Val	Gln	Val	Arg	Leu	Glu	Glu
340			345					350							
Val	Arg	Thr	Gln	Ala	Arg	Arg	Ala	Ile	Glu	Gly	Ala	Val	Lys	Glu	Tyr
355		360				365									
Phe	Tyr	Arg	Gly	Ala	Val	Tyr	Ser	Ala	Lys	Ala	Leu	Gln	Ala	Ser	Asp
370		375				380									
Asn	Asn	Asp	Arg	Arg	Phe	His	Val	Ala	Ser	Ala	Ala	Val	Val	Pro	Val
385		390				395					400				
Val	Gln	Leu	Leu	Glu	Ser	Leu	Pro	Val	Phe	Asp	Gln	His	Thr	Arg	Asp

405

410

415

Ile Ala Gln Arg Ala Ala Ile Pro Ala Pro Pro Pro Ile Ala Thr Ser  
 420 425 430

Pro Thr Ala Ile Leu Leu Arg Asp Leu  
 435 440

&lt;210&gt; 71

&lt;211&gt; 9495

&lt;212&gt; DNA

&lt;213&gt; Herpes Virus

&lt;400&gt; 71

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gccagcaggg cacatatgat cgcgggcacc ccaccgcact ccacgatgga acgcgggggg 120
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Gln Ala Arg Arg Ser Ser Gly Leu Ala Glu Leu Arg Arg Phe Asp Ala		
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Leu Asp Ala Ala Leu Gly Gln Gln Leu Asp Ser Asp Ala Ala Phe Val		
	965	970 975
Pro Ala Pro Gly Ala Ser Pro Tyr Pro Asp Asp Gly Gly Leu Ser Pro		
	980	985 990
Glu Ala Thr Arg Met Ala Glu Glu Ala Leu Arg Gln Ala Arg Ala Met		
	995	1000 1005
Asp Ala Ala Lys Leu Thr Ala Glu Leu Ala Pro Asp Ala Arg Ala Arg		
	1010	1015 1020
Leu Arg Glu Arg Ala Arg Ser Leu Glu Ala Met Leu Glu Gly Ala Arg		
	1025	1030 1035 1040
Glu Arg Ala Lys Val Ala Arg Asp Ala Arg Glu Lys Phe Leu His Lys		
	1045	1050 1055
Leu Gln Gly Val Leu Arg Pro Leu Pro Asp Phe Val Gly Leu Lys Ala		
	1060	1065 1070
Cys Pro Ala Val Leu Ala Thr Leu Arg Ala Ser Leu Pro Ala Gly Trp		
	1075	1080 1085
Ser Asp Leu Pro Glu Ala Val Arg Gly Ala Pro Pro Glu Val Thr Ala		
	1090	1095 1100
Ala Leu Arg Ala Asp Met Trp Gly Leu Leu Gly Gln Tyr Arg Asp Ala		
	1105	1110 1115 1120
Leu Glu His Pro Thr Pro Asp Thr Ala Thr Ala Leu Ser Gly Leu His		
	1125	1130 1135
Pro Ser Phe Val Val Val Leu Lys Asn Leu Phe Ala Asp Ala Pro Glu		
	1140	1145 1150
Thr Pro Phe Leu Leu Gln Phe Phe Ala Asp His Ala Pro Ile Ile Ala		

1155	1160	1165
His Ala Val Ser Asn Ala Ile Asn Ala Gly Ser Ala Ala Val Ala Thr 1170	1175	1180
Ala Asp Pro Ala Ser Thr Val Asp Ala Ala Val Arg Ala His Arg Val 1185	1190	1195 1200
Leu Val Asp Ala Val Thr Ala Leu Gly Ala Ala Ala Ser Asp Pro Ala 1205	1210	1215
Ser Pro Leu Ala Phe Leu Ala Ala Met Ala Asp Ser Ala Ala Gly Tyr 1220	1225	1230
Val Lys Ala Thr Arg Leu Ala Leu Asp Ala Arg Val Ala Ile Ala Gln 1235	1240	1245
Leu Thr Thr Leu Gly Ser Ala Ala Ala Asp Leu Val Val Gln Val Arg 1250	1255	1260
Arg Ala Ala Asn Gln Pro Glu Gly Glu His Ala Ser Leu Ile Gln Ala 1265	1270	1275 1280
Ala Thr Arg Ala Thr Thr Gly Ala Arg Glu Ser Leu Ala Gly His Glu 1285	1290	1295
Gly Arg Phe Gly Gly Leu Leu His Ala Glu Gly Thr Ala Gly Asp His 1300	1305	1310
Ser Pro Ser Gly Arg Ala Leu Gln Glu Leu Gly Lys Val Ile Gly Ala 1315	1320	1325
Thr Arg Arg Arg Ala Asp Glu Leu Glu Ala Ala Thr Ala Asp Leu Arg 1330	1335	1340
Glu Lys Met Ala Ala Gln Arg Ala Arg Ser Ser His Glu Arg Trp Ala 1345	1350	1355 1360
Ala Asp Val Glu Ala Val Leu Asp Arg Val Glu Ser Gly Ala Glu Phe 1365	1370	1375
Asp Val Val Glu Leu Arg Arg Leu Gln Ala Leu Ala Gly Thr His Gly 1380	1385	1390
Tyr Asn Pro Arg Asp Phe Arg Lys Arg Ala Glu Gln Ala Leu Gly Thr 1395	1400	1405
Asn Ala Lys Ala Val Thr Leu Ala Leu Glu Thr Ala Leu Ala Phe Asn 1410	1415	1420
Pro Tyr Thr Pro Glu Asn Gln Arg His Pro Met Leu Pro Pro Leu Ala 1425	1430	1435 1440
Ala Ile His Arg Ile Asp Trp Ser Ala Ala Phe Gly Ala Ala Ala Asp 1445	1450	1455
Thr Tyr Ala Asp Met Phe Arg Val Asp Thr Glu Pro Leu Ala Arg Leu		

1460	1465	1470
Leu Arg Leu Ala Gly Gly Leu Leu Glu Arg Ala Gln Ala Asn Asp Gly 1475	1480	1485
Phe Ile Asp Tyr His Glu Ala Val Leu His Leu Ser Glu Asp Leu Gly 1490	1495	1500
Gly Val Pro Ala Leu Arg Gln Tyr Val Pro Phe Phe Gln Lys Gly Tyr 1505	1510	1515 1520
Ala Glu Tyr Val Asp Ile Arg Asp Arg Leu Asp Ala Leu Arg Ala Asp 1525	1530	1535
Ala Arg Arg Ala Ile Gly Ser Val Ala Leu Asp Leu Ala Ala Ala Ala 1540	1545	1550
Glu Glu Ile Ser Ala Val Arg Asn Asp Pro Ala Ala Ala Ala Glu Leu 1555	1560	1565
Val Arg Ala Gly Val Thr Leu Pro Cys Pro Ser Glu Asp Ala Leu Val 1570	1575	1580
Ala Cys Val Ala Ala Leu Glu Arg Val Asp Gln Ser Pro Val Lys Asp 1585	1590	1595 1600
Thr Ala Tyr Ala His Tyr Val Ala Phe Val Thr Arg Gln Asp Leu Ala 1605	1610	1615
Asp Thr Lys Asp Ala Val Val Arg Ala Lys Gln Gln Arg Ala Glu Ala 1620	1625	1630
Thr Glu Arg Val Thr Ala Gly Leu Arg Glu Val Leu Ala Ala Arg Glu 1635	1640	1645
Arg Arg Ala Gln Leu Glu Ala Glu Gly Leu Ala Asn Leu Lys Thr Leu 1650	1655	1660
Leu Lys Val Val Ala Val Pro Ala Thr Val Ala Lys Thr Leu Asp Gln 1665	1670	1675 1680
Ala Arg Ser Ala Glu Glu Ile Ala Asp Gln Val Glu Ile Leu Val Asp 1685	1690	1695
Gln Thr Glu Lys Ala Arg Glu Leu Asp Val Gln Ala Val Ala Trp Leu 1700	1705	1710
Glu His Ala Gln Arg Thr Phe Glu Thr His Pro Leu Ser Ala Ala Ser 1715	1720	1725
Gly Asp Gly Pro Gly Leu Leu Thr Arg Gln Gly Ala Arg Leu Gln Ala 1730	1735	1740
Leu Phe Asp Thr Arg Arg Arg Val Glu Ala Leu Arg Arg Ser Leu Glu 1745	1750	1755 1760
Glu Ala Glu Ala Glu Trp Asp Glu Val Trp Gly Arg Phe Gly Arg Val		

1765	1770	1775
Arg Gly Gly Ala Trp Lys Ser Pro Glu Gly Phe Arg Ala Ala Cys Glu 1780	1785	1790
Gln Leu Arg Ala Leu Gln Asp Thr Thr Asn Thr Val Ser Gly Leu Arg 1795	1800	1805
Ala Gln Arg Asp Tyr Glu Arg Leu Pro Ala Lys Tyr Gln Gly Val Leu 1810	1815	1820
Gly Ala Lys Ser Ala Glu Arg Ala Gly Ala Val Glu Glu Leu Gly Gly 1825	1830	1835 1840
Arg Val Ala Gln His Ala Asp Leu Ser Ala Arg Leu Arg Asp Glu Val 1845	1850	1855
Val Pro Arg Val Ala Trp Glu Met Asn Phe Asp Thr Leu Gly Gly Leu 1860	1865	1870
Leu Ala Glu Phe Asp Ala Val Ala Gly Asp Leu Ala Pro Trp Ala Val 1875	1880	1885
Glu Glu Phe Arg Gly Ala Arg Glu Leu Ile Gln Arg Arg Met Gly Leu 1890	1895	1900
Tyr Ser Ala Tyr Ala Lys Ala Thr Gly Gln Thr Gly Ala Gly Ala Ala 1905	1910	1915 1920
Ala Ala Pro Ala Pro Leu Leu Val Asp Leu Arg Ala Leu Asp Ala Arg 1925	1930	1935
Ala Arg Ala Ser Ala Pro Pro Gly Gln Glu Ala Asp Pro Gln Met Leu 1940	1945	1950
Arg Arg Arg Gly Glu Ala Tyr Leu Arg Val Ser Gly Gly Pro Gly Pro 1955	1960	1965
Leu Val Leu Arg Glu Ala Thr Ser Thr Leu Asp Arg Pro Phe Ala Pro 1970	1975	1980
Ser Phe Leu Val Pro Asp Gly Thr Pro Leu Gln Tyr Ala Leu Cys Phe 1985	1990	1995 2000
Pro Ala Val Thr Asp Lys Leu Gly Ala Leu Leu Met Cys Pro Glu Ala 2005	2010	2015
Ala Cys Ile Arg Pro Pro Leu Pro Thr Asp Thr Leu Glu Ser Ala Ser 2020	2025	2030
Thr Val Thr Ala Met Tyr Val Leu Thr Val Ile Asn Arg Leu Gln Leu 2035	2040	2045
Ala Leu Ser Asp Ala Gln Ala Ala Asn Phe Gln Leu Phe Gly Arg Phe 2050	2055	2060
Val Arg His Arg Gln Ala Arg Trp Gly Ala Ser Met Asp Ala Ala Ala		



2065	2070	2075	2080
Glu Leu Tyr Val Ala Leu Val Ala Thr Thr Leu Thr Arg Glu Phe Gly			
2085		2090	2095
Cys Arg Trp Ala Gln Leu Glu Trp Gly Gly Asp Ala Ala Ala Pro Gly			
2100	2105		2110
Pro Pro Leu Gly Pro Gln Ser Ser Thr Arg His Arg Val Ser Phe Asn			
2115	2120		2125
Glu Asn Asp Val Leu Val Ala Leu Val Ala Ser Ser Pro Glu His Ile			
2130	2135	2140	
Tyr Thr Phe Trp Arg Leu Asp Leu Val Arg Gln His Glu Tyr Met His			
2145	2150	2155	2160
Leu Thr Leu Pro Arg Ala Phe Gln Asn Ala Ala Asp Ser Met Leu Phe			
2165	2170		2175
Val Gln Arg Leu Thr Pro His Pro Asp Ala Arg Ile Arg Val Leu Pro			
2180	2185		2190
Ala Phe Ser Ala Gly Gly Pro Pro Thr Arg Gly Leu Met Phe Gly Thr			
2195	2200		2205
Arg Leu Ala Asp Trp Arg Arg Gly Lys Leu Ser Glu Thr Asp Pro Leu			
2210	2215		2220
Ala Pro Trp Arg Ser Val Pro Glu Leu Gly Thr Glu Arg Gly Ala Ala			
2225	2230	2235	2240
Leu Gly Lys Leu Ser Pro Ala Gln Ala Leu Ala Ala Val Ser Val Leu			
2245	2250		2255
Gly Arg Met Cys Leu Pro Ser Thr Ala Leu Val Ala Leu Trp Thr Cys			
2260	2265		2270
Met Phe Pro Asp Asp Tyr Thr Glu Tyr Asp Ser Phe Asp Ala Leu Leu			
2275	2280		2285
Thr Ala Arg Leu Glu Ser Gly Gln Thr Leu Ser Pro Ser Gly Gly Arg			
2290	2295		2300
Glu Ala Ser Pro Pro Ala Pro Pro Asn Ala Leu Tyr Arg Pro Thr Gly			
2305	2310	2315	2320
Gln His Val Ala Val Pro Ala Ala Ala Thr His Arg Thr Pro Ala Ala			
2325	2330		2335
Arg Val Thr Ala Met Asp Leu Val Leu Ala Ala Val Leu Leu Gly Ala			
2340	2345		2350
Pro Val Val Val Ala Leu Arg Asn Thr Thr Ala Phe Ser Arg Glu Ser			
2355	2360		2365
Glu Leu Glu Leu Cys Leu Thr Leu Phe Asp Ser Arg Ala Arg Gly Pro			

2370	2375	2380
Asp Ala Ala Leu Arg Asp	Ala Val Ser Ser Asp	Ile Glu Thr Trp Ala
2385	2390	2395 2400
Val Arg Leu Leu His	Ala Asp Leu Asn Pro	Ile Glu Asn Ala Cys Leu
2405	2410	2415
Ala Ala Gln Leu Pro Arg	Leu Ser Ala Leu Ile	Ala Glu Arg Pro Leu
2420	2425	2430
Ala Arg Gly Pro Pro Cys	Leu Val Leu Val Asp	Ile Ser Met Thr Pro
2435	2440	2445
Val Ala Val Leu Trp	Glu Asn Pro Asp Pro	Pro Gly Pro Pro Asp Val
2450	2455	2460
Arg Phe Val Gly Ser	Glu Ala Thr Glu Glu	Leu Pro Phe Val Ala Gly
2465	2470	2475 2480
Gly Glu Asp Val Leu	Ala Ala Ser Ala Thr	Asp Glu Asp Pro Phe Leu
2485	2490	2495
Ala Arg Ala Ile Leu	Gly Arg Pro Phe Asp	Ala Ser Leu Leu Ser Gly
2500	2505	2510
Glu Leu Phe Pro Gly	His Pro Val Tyr Gln	Arg Ala Pro Asp Asp Gln
2515	2520	2525
Ser Pro Ser Val Pro	Asn Pro Thr Pro Gly	Pro Val Asp Leu Val Gly
2530	2535	2540
Ala Glu Gly Ser Leu	Gly Pro Gly Ser Leu	Ala Pro Thr Leu Phe Thr
2545	2550	2555 2560
Asp Ala Thr Pro Gly	Glu Pro Val Pro Pro	Arg Met Trp Ala Trp Ile
2565	2570	2575
His Gly Leu Glu Glu	Leu Ala Ser Asp Asp	Ser Gly Gly Pro Ala Pro
2580	2585	2590
Leu Leu Ala Pro Asp	Pro Leu Ser Pro Thr	Ala Asp Gln Ser Val Pro
2595	2600	2605
Thr Ser Gln Cys Ala	Pro Arg Pro Pro Gly	Pro Ala Val Thr Ala Arg
2610	2615	2620
Glu Ala Arg Pro Gly	Val Pro Ala Glu Ser	Thr Arg Pro Ala Pro Val
2625	2630	2635 2640
Gly Pro Arg Asp Asp	Phe Arg Arg Leu Pro	Ser Pro Gln Ser Ser Pro
2645	2650	2655
Ala Pro Pro Asp Ala	Thr Ala Pro Arg Pro	Pro Ala Ser Ser Arg Ala
2660	2665	2670
Ser Ala Ala Ser Ser	Ser Gly Ser Arg Ala	Arg Arg His Arg Arg Ala

2675	2680	2685
Arg Ser Leu Ala Arg Ala Thr Gln Ala Ser Ala Thr Thr Gln Gly Trp 2690	2695	2700
Arg Pro Pro Ala Leu Pro Asp Thr Val Ala Pro Val Thr Asp Phe Ala 2705	2710	2715 2720
Arg Pro Pro Ala Pro Pro Lys Pro Pro Glu Pro Ala Pro His Ala Leu 2725	2730	2735
Val Ser Gly Val Pro Leu Pro Leu Gly Pro Gln Ala Ala Gly Gln Ala 2740	2745	2750
Ser Pro Ala Leu Pro Ile Asp Pro Val Pro Pro Pro Val Ala Thr Gly 2755	2760	2765
Thr Val Leu Pro Gly Gly Glu Asn Arg Arg Pro Pro Leu Thr Ser Gly 2770	2775	2780
Pro Ala Pro Thr Pro Pro Arg Val Pro Val Gly Gly Pro Gln Arg Arg 2785	2790	2795 2800
Leu Thr Arg Pro Ala Val Ala Ser Leu Ser Glu Ser Arg Glu Ser Leu 2805	2810	2815
Pro Ser Pro Trp Asp Pro Ala Asp Pro Thr Ala Pro Val Leu Gly Arg 2820	2825	2830
Asn Pro Ala Glu Pro Thr Ser Ser Ser Pro Ala Gly Pro Ser Pro Pro 2835	2840	2845
Pro Pro Ala Val Gln Pro Val Ala Pro Pro Pro Thr Ser Gly Pro Pro 2850	2855	2860
Pro Thr Tyr Leu Thr Leu Glu Gly Gly Val Ala Pro Gly Gly Pro Val 2865	2870	2875 2880
Ser Arg Arg Pro Thr Thr Arg Gln Pro Val Ala Thr Pro Thr Thr Ser 2885	2890	2895
Ala Arg Pro Arg Gly His Leu Thr Val Ser Arg Leu Ser Ala Pro Gln 2900	2905	2910
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2915	2920	2925
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2930	2935	2940
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2945	2950	2955 2960
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2965	2970	2975
Pro Gln Pro Gln Asn Gly His Val Ala Pro Gly Glu Tyr Pro Ala Val		

2980	2985	2990
Arg Phe Arg Ala Pro Gln Asn Arg Pro Ser Val Pro Ala Ser Ala Ser		
2995	3000	3005
Ser Thr Asn Pro Arg Thr Gly Ser Ser Leu Ser Gly Val Ser Ser Trp		
3010	3015	3020
Ala Ser Ser Leu Ala Leu His Ile Asp Ala Thr Pro Pro Pro Val Ser		
3025	3030	3035 3040
Leu Leu Gln Thr Leu Tyr Val Ser Asp Asp Glu Asp Ser Asp Ala Thr		
3045	3050	3055
Ser Leu Phe Leu Ser Asp Ser Glu Ala Glu Ala Leu Asp Pro Leu Pro		
3060	3065	3070
Gly Glu Pro His Ser Pro Ile Thr Asn Glu Pro Phe Ser Ala Leu Ser		
3075	3080	3085
Ala Asp Asp Ser Gln Glu Val Thr Arg Leu Gln Phe Gly Pro Pro Pro		
3090	3095	3100
Val Ser Ala Asn Ala Val Leu Ser Arg Arg Tyr Val Gln Arg Thr Gly		
3105	3110	3115 3120
Arg Ser Ala Leu Ala Val Leu Ile Arg Ala Cys Tyr Arg Leu Gln Gln		
3125	3130	3135
Gln Leu Gln Arg Thr Arg Arg Ala Leu Leu His His Ser Asp Ala Val		
3140	3145	3150
Leu Thr Ser Leu His His Val Arg Met Leu Leu Gly		
3155	3160	

<210> 73  
 <211> 1128  
 <212> DNA  
 <213> Herpes Virus

<400> 73

ttccagcctg	ccgtctccag	cctgctgcag	ctcggggagc	agccctccgc	cggcgcccag	60
cagcggctgc	tggtctgtct	gcagcagacg	tggaagttga	tccagaatac	caattcgccc	120
tccgtggtga	tcaacaccct	gatcgacgct	gggttcacgc	cctcgactg	cacgcactac	180
ctttcggccc	tggaaggggt	tctggcggcg	ggcgctcccc	cgcggaagcc	caccggccac	240
ggactcggcg	aagtccagca	gctctttggg	tgcattgccc	tcgcgggggt	gaacgtgttt	300
gggttggcgc	gggaatacgg	gtactatgcc	aactacgtaa	aaactttcag	gcgggtccag	360
ggcgccagcg	agcacacgca	cgggcggctc	tgcgaggcgg	tcggcctgtc	ggggggcggt	420
ctaagccaga	cgctggcgcg	tatcatgggt	ccggccgtgc	cgacggaaca	tctggcgagc	480
ctgcggcggg	cgctcgtggg	ggagtttgag	acggccgagc	gccgctttag	ttccggtcaa	540
cccagccttc	tccgcgagac	ggcgctcatc	tggaacgacg	tgtatggtca	gacccactgg	600
gacatcaccc	ccaccacccc	ggccacgcgc	ctgtccgcgc	ttctccccgt	cgggcagccc	660
agccacgccc	cctctgtcca	cctggccgcg	gcgaccacga	tccgcttccc	cgccctcgag	720
ggcattcacc	ccaacgtcct	cgccgacccg	ggcttcgtcc	cctacgttct	ggccctgggt	780
gtcggggacg	cgctgagggc	cacgtgtagc	gcggcctacc	ttccccgccc	ggtcgagttc	840
gcctgcgtg	tggtggcctg	ggcccgggac	tttgggctgg	gctatctccc	cacggttgag	900

ggccatcgca ccaaactggg cgcgctgac accctcctcg aaccggccgc ccggggcggc 960  
 ctccggccca ctatgcagat ggccgacaac atagagcagc tgctccggga gctgtacgtg 1020  
 atctccaggg gtgccgtcga gcagctgcgg cccctggtcc agctgcagcc ccccccggcc 1080  
 cccgaggtgg gcaccagcct cctgttgatt agcatgtacg ccctggcc 1128

<210> 74  
 <211> 376  
 <212> PRT  
 <213> Herpes Virus

<400> 74  
 Phe Gln Pro Ala Val Ser Ser Leu Leu Gln Leu Gly Glu Gln Pro Ser  
 1 5 10 15  
 Ala Gly Ala Gln Gln Arg Leu Leu Ala Leu Leu Gln Gln Thr Trp Thr  
 20 25 30  
 Leu Ile Gln Asn Thr Asn Ser Pro Ser Val Val Ile Asn Thr Leu Ile  
 35 40 45  
 Asp Ala Gly Phe Thr Pro Ser His Cys Thr His Tyr Leu Ser Ala Leu  
 50 55 60  
 Glu Gly Phe Leu Ala Ala Gly Val Pro Ala Arg Thr Pro Thr Gly His  
 65 70 75 80  
 Gly Leu Gly Glu Val Gln Gln Leu Phe Gly Cys Ile Ala Leu Ala Gly  
 85 90 95  
 Ser Asn Val Phe Gly Leu Ala Arg Glu Tyr Gly Tyr Tyr Ala Asn Tyr  
 100 105 110  
 Val Lys Thr Phe Arg Arg Val Gln Gly Ala Ser Glu His Thr His Gly  
 115 120 125  
 Arg Leu Cys Glu Ala Val Gly Leu Ser Gly Gly Val Leu Ser Gln Thr  
 130 135 140  
 Leu Ala Arg Ile Met Gly Pro Ala Val Pro Thr Glu His Leu Ala Ser  
 145 150 155 160  
 Leu Arg Arg Ala Leu Val Gly Glu Phe Glu Thr Ala Glu Arg Arg Phe  
 165 170 175  
 Ser Ser Gly Gln Pro Ser Leu Leu Arg Glu Thr Ala Leu Ile Trp Ile  
 180 185 190  
 Asp Val Tyr Gly Gln Thr His Trp Asp Ile Thr Pro Thr Thr Pro Ala  
 195 200 205  
 Thr Pro Leu Ser Ala Leu Leu Pro Val Gly Gln Pro Ser His Ala Pro  
 210 215 220  
 Ser Val His Leu Ala Ala Ala Thr Gln Ile Arg Phe Pro Ala Leu Glu  
 225 230 235 240

Gly Ile His Pro Asn Val Leu Ala Asp Pro Gly Phe Val Pro Tyr Val  
 245 250 255  
 Leu Ala Leu Val Val Gly Asp Ala Leu Arg Ala Thr Cys Ser Ala Ala  
 260 265 270  
 Tyr Leu Pro Arg Pro Val Glu Phe Ala Leu Arg Val Leu Ala Trp Ala  
 275 280 285  
 Arg Asp Phe Gly Leu Gly Tyr Leu Pro Thr Val Glu Gly His Arg Thr  
 290 295 300  
 Lys Leu Gly Ala Leu Ile Thr Leu Leu Glu Pro Ala Ala Arg Gly Gly  
 305 310 315 320  
 Leu Gly Pro Thr Met Gln Met Ala Asp Asn Ile Glu Gln Leu Leu Arg  
 325 330 335  
 Glu Leu Tyr Val Ile Ser Arg Gly Ala Val Glu Gln Leu Arg Pro Leu  
 340 345 350  
 Val Gln Leu Gln Pro Pro Pro Pro Glu Val Gly Thr Ser Leu Leu  
 355 360 365  
 Leu Ile Ser Met Tyr Ala Leu Ala  
 370 375

<210> 75  
 <211> 1083  
 <212> DNA  
 <213> Herpes Virus

<400> 75  
 ctgattcgcc aactggagga cgccatcggt ctgctgcggc tgcacatgcg cacgctctcc 60  
 gccttttttcg agtgtcggtt cgagagcgac gggcgccgcc tgtatgcggt ggtcggggac 120  
 acgcccagacc gcctggggcc ctggccccc gaggccatgg gggacgcggt gagtcagtac 180  
 tgcagcatgt atcacgacgc caagcgcgcg ctgggtcggt ccctcgcgag cctgcgttcc 240  
 gtcatacccg aaaccacggc gcacctgggg gtgtgcgacg agctggcggc ccaggtgtcg 300  
 cacgaggaca acgtgctggc cgtgggtcgg cgcgaaattc acgggtttct gtccgtcgtg 360  
 tccggcattc acgcccgggc gtcgaagctg ctgtcgggag accaggtccc cgggttttgc 420  
 ttcatgggtc agtttctagc gcgctggcgg cgtctgtcgg cctgctatca agccgcgcgc 480  
 gcggccgcgg gaccgagacc cgtggccgag tttgtccagg aactccacga cacgtggaag 540  
 ggccctgcaga cggagcgcgc cgtgggtcgt gcgcccttgg tcagctcggc cgaccagcgc 600  
 gccgcggcca tccgagaggt aatggcgcat gcgcccagg acgcccccc gcaaagcccc 660  
 gcggccgacc gcgtcgtgct tacgagccgt cgcgacctag gggcctgggg ggactacagc 720  
 ctcggccccc tgggccagac gaccgcggtt ccggactccg tggatctgtc tcgccagggg 780  
 ctggccgtta cgctgagtat ggattgggta ctgatgaacg agctcctgcg ggtcaccgac 840  
 ggcgtgtttc gcgcttccgc gtttcgtccg ttagccggac cggagtctcc cagggacctg 900  
 gaggtccgcg acgcccgaag cagtctcccc gcgcctatgc ccatggacgc acagaagccg 960  
 gaggcctatg ggcacggccc acgccaggcg gaccgcgagg gggcgccctca ttccaacacc 1020  
 cccgtcgagg acgacgagat gatcccggag gacaccgtcg cgccaccac ggacttgccg 1080  
 tta 1083

<210> 76  
 <211> 361

<212> PRT  
<213> Herpes Virus

<400> 76

Leu	Ile	Arg	Gln	Leu	Glu	Asp	Ala	Ile	Val	Leu	Leu	Arg	Leu	His	Met
1				5					10					15	
Arg	Thr	Leu	Ser	Ala	Phe	Phe	Glu	Cys	Arg	Phe	Glu	Ser	Asp	Gly	Arg
			20					25					30		
Arg	Leu	Tyr	Ala	Val	Val	Gly	Asp	Thr	Pro	Asp	Arg	Leu	Gly	Pro	Trp
		35					40					45			
Pro	Pro	Glu	Ala	Met	Gly	Asp	Ala	Val	Ser	Gln	Tyr	Cys	Ser	Met	Tyr
	50					55					60				
His	Asp	Ala	Lys	Arg	Ala	Leu	Val	Ala	Ser	Leu	Ala	Ser	Leu	Arg	Ser
65					70					75					80
Val	Ile	Thr	Glu	Thr	Thr	Ala	His	Leu	Gly	Val	Cys	Asp	Glu	Leu	Ala
				85					90					95	
Ala	Gln	Val	Ser	His	Glu	Asp	Asn	Val	Leu	Ala	Val	Val	Arg	Arg	Glu
			100					105					110		
Ile	His	Gly	Phe	Leu	Ser	Val	Val	Ser	Gly	Ile	His	Ala	Arg	Ala	Ser
		115					120					125			
Lys	Leu	Leu	Ser	Gly	Asp	Gln	Val	Pro	Gly	Phe	Cys	Phe	Met	Gly	Gln
	130					135					140				
Phe	Leu	Ala	Arg	Trp	Arg	Arg	Leu	Ser	Ala	Cys	Tyr	Gln	Ala	Ala	Arg
145					150					155					160
Ala	Ala	Ala	Gly	Pro	Glu	Pro	Val	Ala	Glu	Phe	Val	Gln	Glu	Leu	His
				165					170					175	
Asp	Thr	Trp	Lys	Gly	Leu	Gln	Thr	Glu	Arg	Ala	Val	Val	Val	Ala	Pro
			180					185						190	
Leu	Val	Ser	Ser	Ala	Asp	Gln	Arg	Ala	Ala	Ala	Ile	Arg	Glu	Val	Met
		195					200					205			
Ala	His	Ala	Pro	Glu	Asp	Ala	Pro	Pro	Gln	Ser	Pro	Ala	Ala	Asp	Arg
	210					215					220				
Val	Val	Leu	Thr	Ser	Arg	Arg	Asp	Leu	Gly	Ala	Trp	Gly	Asp	Tyr	Ser
225					230					235					240
Leu	Gly	Pro	Leu	Gly	Gln	Thr	Thr	Ala	Val	Pro	Asp	Ser	Val	Asp	Leu
				245					250					255	
Ser	Arg	Gln	Gly	Leu	Ala	Val	Thr	Leu	Ser	Met	Asp	Trp	Leu	Leu	Met
			260					265					270		
Asn	Glu	Leu	Leu	Arg	Val	Thr	Asp	Gly	Val	Phe	Arg	Ala	Ser	Ala	Phe
		275					280					285			

Arg Pro Leu Ala Gly Pro Glu Ser Pro Arg Asp Leu Glu Val Arg Asp  
 290 295 300

Ala Gly Asn Ser Leu Pro Ala Pro Met Pro Met Asp Ala Gln Lys Pro  
 305 310 315 320

Glu Ala Tyr Gly His Gly Pro Arg Gln Ala Asp Arg Glu Gly Ala Pro  
 325 330 335

His Ser Asn Thr Pro Val Glu Asp Asp Glu Met Ile Pro Glu Asp Thr  
 340 345 350

Val Ala Pro Pro Thr Asp Leu Pro Leu  
 355 360

<210> 77  
 <211> 3372  
 <212> DNA  
 <213> Herpes Virus

<400> 77  
 atggcagacc gcggtctccc gtccgaggcc cccgtcgtea cgacctcacc cgccgggtccg 60  
 ccctcggacg gacctatgca gcgcctattg gcgagcctag ccggccttcg ccaaccgcca 120  
 acccccacgg ccgagacggc aaacggggcg gacgaccggy cgtttctggc cacggccaag 180  
 ctgcgcgcgg ccattggcggc gtttctgttg tcgggaacgg ccacgcggcc ggagacgcgg 240  
 cgggactgct ggcgcccgct gctggaacac ctgtgcgcgc tcacccgggg ccacgggctt 300  
 ccggagacgg gcctcttggc cgagaacctc cccgggttgc tcgtacaccg cttggtggtg 360  
 gctctccccg agggccccga ccaggccttc cgggagatgg aggtcatcaa ggacaccatc 420  
 ctgcgggtca ccggctccga cacgtcccat gcgctggatt ccgcccggct gcgcaccgcy 480  
 gcggccctgg ggccgggtccg cgtccgccag tgcgcggtgg agtggataga ccgctggcaa 540  
 accgtcacca agagctgctt ggccatgagc ccgcggaact ccacgaggc ccttggggag 600  
 acgtcgctca agatggcgcc ggtcccgttg gggcagccca gcgcgaacct taccaccccg 660  
 gcgtacagcc tgctcttccc cgcgccgttc gtgcaagagg gcctccggtt cttggccctg 720  
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 actccctca caggggacct ctttacgttg gccctggtgg acgagtacct gacgaccccc 840  
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 atcgaccggg ccataatgat tccgcccgtc gaggccaaca agatgggttcg cagccgcgag 960  
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 gagcagccct ccgcccggcg ccagcagcgg ctgctggctc tgcctgcagca gacgtggaag 1200  
 ttgatccaga ataccaattc gccctccgtg gtgatcaaca ccctgatcga cgtgggttc 1260  
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<210> 78  
 <211> 1123  
 <212> PRT  
 <213> Herpes Virus

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<400> 78
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Pro Ala Gly Pro Pro Ser Asp Gly Pro Met Gln Arg Leu Leu Ala Ser
      20             25             30

Leu Ala Gly Leu Arg Gln Pro Pro Thr Pro Thr Ala Glu Thr Ala Asn
  35             40             45

Gly Ala Asp Asp Pro Ala Phe Leu Ala Thr Ala Lys Leu Arg Ala Ala
  50             55             60

Met Ala Ala Phe Leu Leu Ser Gly Thr Ala Ile Ala Pro Ala Asp Ala
  65             70             75             80

Arg Asp Cys Trp Arg Pro Leu Leu Glu His Leu Cys Ala Leu His Arg
      85             90             95

Ala His Gly Leu Pro Glu Thr Ala Leu Leu Ala Glu Asn Leu Pro Gly
  100            105            110

Leu Leu Val His Arg Leu Val Val Ala Leu Pro Glu Ala Pro Asp Gln
  115            120            125

Ala Phe Arg Glu Met Glu Val Ile Lys Asp Thr Ile Leu Ala Val Thr
  130            135            140

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Gly	Ser	Asp	Thr	Ser	His	Ala	Leu	Asp	Ser	Ala	Gly	Leu	Arg	Thr	Ala	145	150	155	160
Ala	Ala	Leu	Gly	Pro	Val	Arg	Val	Arg	Gln	Cys	Ala	Val	Glu	Trp	Ile	165	170	175	
Asp	Arg	Trp	Gln	Thr	Val	Thr	Lys	Ser	Cys	Leu	Ala	Met	Ser	Pro	Arg	180	185	190	
Thr	Ser	Ile	Glu	Ala	Leu	Gly	Glu	Thr	Ser	Leu	Lys	Met	Ala	Pro	Val	195	200	205	
Pro	Leu	Gly	Gln	Pro	Ser	Ala	Asn	Leu	Thr	Thr	Pro	Ala	Tyr	Ser	Leu	210	215	220	
Leu	Phe	Pro	Ala	Pro	Phe	Val	Gln	Glu	Gly	Leu	Arg	Phe	Leu	Ala	Leu	225	230	235	240
Val	Ser	Asn	Arg	Val	Thr	Leu	Phe	Ser	Ala	His	Leu	Gln	Arg	Ile	Asp	245	250	255	
Asp	Ala	Thr	Leu	Thr	Pro	Leu	Thr	Arg	Ala	Leu	Phe	Thr	Leu	Ala	Leu	260	265	270	
Val	Asp	Glu	Tyr	Leu	Thr	Thr	Pro	Glu	Arg	Gly	Ala	Val	Val	Pro	Pro	275	280	285	
Pro	Leu	Leu	Ala	Gln	Phe	Gln	His	Thr	Val	Arg	Glu	Ile	Asp	Pro	Ala	290	295	300	
Ile	Met	Ile	Pro	Pro	Leu	Glu	Ala	Asn	Lys	Met	Val	Arg	Ser	Arg	Glu	305	310	315	320
Glu	Val	Arg	Val	Ser	Thr	Ala	Leu	Ser	Arg	Val	Ser	Pro	Arg	Ser	Ala	325	330	335	
Cys	Ala	Pro	Pro	Gly	Thr	Leu	Met	Ala	Arg	Val	Arg	Thr	Asp	Val	Ala	340	345	350	
Val	Phe	Asp	Pro	Asp	Val	Pro	Phe	Leu	Ser	Ser	Ser	Ala	Leu	Ala	Val	355	360	365	
Phe	Gln	Pro	Ala	Val	Ser	Ser	Leu	Leu	Gln	Leu	Gly	Glu	Gln	Pro	Ser	370	375	380	
Ala	Gly	Ala	Gln	Gln	Arg	Leu	Leu	Ala	Leu	Leu	Gln	Gln	Thr	Trp	Thr	385	390	395	400
Leu	Ile	Gln	Asn	Thr	Asn	Ser	Pro	Ser	Val	Val	Ile	Asn	Thr	Leu	Ile	405	410	415	
Asp	Ala	Gly	Phe	Thr	Pro	Ser	His	Cys	Thr	His	Tyr	Leu	Ser	Ala	Leu	420	425	430	
Glu	Gly	Phe	Leu	Ala	Ala	Gly	Val	Pro	Ala	Arg	Thr	Pro	Thr	Gly	His	435	440	445	

Gly	Leu	Gly	Glu	Val	Gln	Gln	Leu	Phe	Gly	Cys	Ile	Ala	Leu	Ala	Gly	450	455	460	
Ser	Asn	Val	Phe	Gly	Leu	Ala	Arg	Glu	Tyr	Gly	Tyr	Tyr	Ala	Asn	Tyr	465	470	475	480
Val	Lys	Thr	Phe	Arg	Arg	Val	Gln	Gly	Ala	Ser	Glu	His	Thr	His	Gly	485	490	495	
Arg	Leu	Cys	Glu	Ala	Val	Gly	Leu	Ser	Gly	Gly	Val	Leu	Ser	Gln	Thr	500	505	510	
Leu	Ala	Arg	Ile	Met	Gly	Pro	Ala	Val	Pro	Thr	Glu	His	Leu	Ala	Ser	515	520	525	
Leu	Arg	Arg	Ala	Leu	Val	Gly	Glu	Phe	Glu	Thr	Ala	Glu	Arg	Arg	Phe	530	535	540	
Ser	Ser	Gly	Gln	Pro	Ser	Leu	Leu	Arg	Glu	Thr	Ala	Leu	Ile	Trp	Ile	545	550	555	560
Asp	Val	Tyr	Gly	Gln	Thr	His	Trp	Asp	Ile	Thr	Pro	Thr	Thr	Pro	Ala	565	570	575	
Thr	Pro	Leu	Ser	Ala	Leu	Leu	Pro	Val	Gly	Gln	Pro	Ser	His	Ala	Pro	580	585	590	
Ser	Val	His	Leu	Ala	Ala	Ala	Thr	Gln	Ile	Arg	Phe	Pro	Ala	Leu	Glu	595	600	605	
Gly	Ile	His	Pro	Asn	Val	Leu	Ala	Asp	Pro	Gly	Phe	Val	Pro	Tyr	Val	610	615	620	
Leu	Ala	Leu	Val	Val	Gly	Asp	Ala	Leu	Arg	Ala	Thr	Cys	Ser	Ala	Ala	625	630	635	640
Tyr	Leu	Pro	Arg	Pro	Val	Glu	Phe	Ala	Leu	Arg	Val	Leu	Ala	Trp	Ala	645	650	655	
Arg	Asp	Phe	Gly	Leu	Gly	Tyr	Leu	Pro	Thr	Val	Glu	Gly	His	Arg	Thr	660	665	670	
Lys	Leu	Gly	Ala	Leu	Ile	Thr	Leu	Leu	Glu	Pro	Ala	Ala	Arg	Gly	Gly	675	680	685	
Leu	Gly	Pro	Thr	Met	Gln	Met	Ala	Asp	Asn	Ile	Glu	Gln	Leu	Leu	Arg	690	695	700	
Glu	Leu	Tyr	Val	Ile	Ser	Arg	Gly	Ala	Val	Glu	Gln	Leu	Arg	Pro	Leu	705	710	715	720
Val	Gln	Leu	Gln	Pro	Pro	Pro	Pro	Pro	Glu	Val	Gly	Thr	Ser	Leu	Leu	725	730	735	
Leu	Ile	Ser	Met	Tyr	Ala	Leu	Ala	Ala	Arg	Gly	Val	Leu	Gln	Asp	Leu	740	745	750	

Ala	Glu	Arg	Ala	Asp	Pro	Leu	Ile	Arg	Gln	Leu	Glu	Asp	Ala	Ile	Val	755	760	765	
Leu	Leu	Arg	Leu	His	Met	Arg	Thr	Leu	Ser	Ala	Phe	Phe	Glu	Cys	Arg	770	775	780	
Phe	Glu	Ser	Asp	Gly	Arg	Arg	Leu	Tyr	Ala	Val	Val	Gly	Asp	Thr	Pro	785	790	795	800
Asp	Arg	Leu	Gly	Pro	Trp	Pro	Pro	Glu	Ala	Met	Gly	Asp	Ala	Val	Ser	805	810	815	
Gln	Tyr	Cys	Ser	Met	Tyr	His	Asp	Ala	Lys	Arg	Ala	Leu	Val	Ala	Ser	820	825	830	
Leu	Ala	Ser	Leu	Arg	Ser	Val	Ile	Thr	Glu	Thr	Thr	Ala	His	Leu	Gly	835	840	845	
Val	Cys	Asp	Glu	Leu	Ala	Ala	Gln	Val	Ser	His	Glu	Asp	Asn	Val	Leu	850	855	860	
Ala	Val	Val	Arg	Arg	Glu	Ile	His	Gly	Phe	Leu	Ser	Val	Val	Ser	Gly	865	870	875	880
Ile	His	Ala	Arg	Ala	Ser	Lys	Leu	Leu	Ser	Gly	Asp	Gln	Val	Pro	Gly	885	890	895	
Phe	Cys	Phe	Met	Gly	Gln	Phe	Leu	Ala	Arg	Trp	Arg	Arg	Leu	Ser	Ala	900	905	910	
Cys	Tyr	Gln	Ala	Ala	Arg	Ala	Ala	Ala	Gly	Pro	Glu	Pro	Val	Ala	Glu	915	920	925	
Phe	Val	Gln	Glu	Leu	His	Asp	Thr	Trp	Lys	Gly	Leu	Gln	Thr	Glu	Arg	930	935	940	
Ala	Val	Val	Val	Ala	Pro	Leu	Val	Ser	Ser	Ala	Asp	Gln	Arg	Ala	Ala	945	950	955	960
Ala	Ile	Arg	Glu	Val	Met	Ala	His	Ala	Pro	Glu	Asp	Ala	Pro	Pro	Gln	965	970	975	
Ser	Pro	Ala	Ala	Asp	Arg	Val	Val	Leu	Thr	Ser	Arg	Arg	Asp	Leu	Gly	980	985	990	
Ala	Trp	Gly	Asp	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Gln	Thr	Thr	Ala	Val	995	1000	1005	
Pro	Asp	Ser	Val	Asp	Leu	Ser	Arg	Gln	Gly	Leu	Ala	Val	Thr	Leu	Ser	1010	1015	1020	
Met	Asp	Trp	Leu	Leu	Met	Asn	Glu	Leu	Leu	Arg	Val	Thr	Asp	Gly	Val	1025	1030	1035	1040
Phe	Arg	Ala	Ser	Ala	Phe	Arg	Pro	Leu	Ala	Gly	Pro	Glu	Ser	Pro	Arg	1045	1050	1055	

Asp Leu Glu Val Arg Asp Ala Gly Asn Ser Leu Pro Ala Pro Met Pro  
 1060 1065 1070

Met Asp Ala Gln Lys Pro Glu Ala Tyr Gly His Gly Pro Arg Gln Ala  
 1075 1080 1085

Asp Arg Glu Gly Ala Pro His Ser Asn Thr Pro Val Glu Asp Asp Glu  
 1090 1095 1100

Met Ile Pro Glu Asp Thr Val Ala Pro Pro Thr Asp Leu Pro Leu Thr  
 1105 1110 1115 1120

Ser Tyr Gln

<210> 79  
 <211> 1401  
 <212> DNA  
 <213> Herpes Virus

<400> 79  
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 ctctgtcgct tattaaaggt gtttacccaa aagtcctttt tccccatctt cgttaccgat 240  
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 gaaaccagga cccctctgcc gccggccggc ggccggcacc agacgcgcgt ctgctggacc 960  
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 cgcgacgaaa acctggcgcg atctatcgtg acccggcata tcacggcccc tgatatcgcc 1380  
 gacaggtttc tggagcagtt g 1401

<210> 80  
 <211> 467  
 <212> PRT  
 <213> Herpes Virus

<400> 80  
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Leu	Trp	Asn	Val	Met	Tyr	Thr	Leu	Val	Val	Lys	Tyr	Gln	Arg	Arg	Tyr	35	40	45
Pro	Ser	Tyr	Asp	Arg	Glu	Ala	Ile	Thr	Leu	His	Cys	Leu	Cys	Arg	Leu	50	55	60
Leu	Lys	Val	Phe	Thr	Gln	Lys	Ser	Leu	Phe	Pro	Ile	Phe	Val	Thr	Asp	65	70	75
Arg	Gly	Val	Asn	Cys	Met	Glu	Pro	Val	Val	Phe	Gly	Ala	Lys	Ala	Ile	85	90	95
Leu	Ala	Arg	Thr	Thr	Ala	Gln	Cys	Arg	Thr	Asp	Glu	Glu	Ala	Ser	Asp	100	105	110
Val	Asp	Ala	Ser	Pro	Pro	Pro	Ser	Pro	Ile	Thr	Asp	Ser	Arg	Pro	Ser	115	120	125
Ser	Ala	Phe	Ser	Asn	Met	Arg	Arg	Arg	Gly	Thr	Ser	Leu	Ala	Ser	Gly	130	135	140
Thr	Arg	Gly	Thr	Ala	Gly	Ser	Gly	Ala	Ala	Leu	Pro	Ser	Ala	Ala	Pro	145	150	155
Ser	Lys	Pro	Ala	Leu	Arg	Leu	Ala	His	Leu	Phe	Cys	Ile	Arg	Val	Leu	165	170	175
Arg	Ala	Leu	Gly	Tyr	Ala	Tyr	Ile	Asn	Ser	Gly	Gln	Leu	Glu	Ala	Asp	180	185	190
Asp	Ala	Cys	Ala	Asn	Leu	Tyr	His	Thr	Asn	Thr	Val	Ala	Tyr	Val	Tyr	195	200	205
Thr	Thr	Asp	Thr	Asp	Leu	Leu	Leu	Met	Gly	Cys	Asp	Ile	Val	Leu	Asp	210	215	220
Ile	Ser	Ala	Cys	Tyr	Ile	Pro	Thr	Ile	Asn	Cys	Arg	Asp	Ile	Leu	Lys	225	230	235
Tyr	Phe	Lys	Met	Ser	Tyr	Pro	Gln	Phe	Leu	Ala	Leu	Phe	Val	Arg	Cys	245	250	255
His	Thr	Asp	Leu	His	Pro	Asn	Asn	Thr	Tyr	Ala	Ser	Val	Glu	Asp	Val	260	265	270
Leu	Arg	Glu	Cys	His	Trp	Thr	Pro	Pro	Ser	Arg	Ser	Gln	Thr	Arg	Arg	275	280	285
Ala	Ile	Arg	Arg	Glu	His	Thr	Ser	Ser	Arg	Ser	Thr	Glu	Thr	Arg	Pro	290	295	300
Pro	Leu	Pro	Pro	Ala	Ala	Gly	Gly	Thr	Glu	Thr	Arg	Val	Ser	Trp	Thr	305	310	315

Glu Ile Leu Thr Gln Gln Ile Ala Gly Gly Tyr Glu Asp Asp Glu Asp  
325 330 335

Leu Pro Leu Asp Pro Arg Asp Val Thr Gly Gly His Pro Gly Pro Arg  
340 345 350

Ser Ser Ser Ser Glu Ile Leu Thr Pro Pro Glu Leu Val Gln Val Pro  
355 360 365

Asn Ala Gln Leu Leu Glu Glu His Arg Ser Tyr Val Ala Asn Pro Arg  
370 375 380

Arg His Val Ile His Asp Ala Pro Glu Ser Leu Asp Trp Leu Pro Asp  
385 390 395 400

Pro Met Thr Ile Thr Glu Leu Val Glu His Arg Tyr Ile Lys Tyr Val  
405 410 415

Ile Ser Leu Ile Gly Pro Lys Glu Arg Gly Pro Trp Thr Leu Leu Lys  
420 425 430

Arg Leu Pro Ile Tyr Gln Asp Ile Arg Asp Glu Asn Leu Ala Arg Ser  
435 440 445

Ile Val Thr Arg His Ile Thr Ala Pro Asp Ile Ala Asp Arg Phe Leu  
450 455 460

Glu Gln Leu  
465

<210> 81  
<211> 1470  
<212> DNA  
<213> Herpes Virus

<400> 81  
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cactgcctct gtcgcttatt aaaggtgttt acccaaaagt cctttttccc catcttcggt 240  
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cgcacgacgg cccagtgccg gacggacgag gaggccagtg acgtggacgc ctctccaccg 360  
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ctcacccgcg ccgagctcgt ccaggtcccc aacgcgcagc tgctggaaga gcaccgcagt 1140

tatgtggcca acccgcgacg ccacgtcatc cacgacgccc cagagtcctt ggactggctc 1200  
 cccgatccca tgaccatcac cgagctggtg gaacaccgct acattaagta cgtcatatcg 1260  
 cttatcggcc ccaaggagcg ggggccgtgg actcttctga aacgcctgcc tatctaccag 1320  
 gacatccgcg acgaaaacct ggcgcgatct atcgtgaccc ggcatatcac ggccccctgat 1380  
 atcgccgaca ggtttctgga gcagttgcgg acccaggccc cccaccgcgc gttctacaag 1440  
 gacgtcctgg ccaaattctg ggacgagtag 1470

<210> 82  
 <211> 489  
 <212> PRT  
 <213> Herpes Virus

<400> 82  
 Met Gly Leu Phe Gly Met Met Lys Phe Ala His Thr His His Leu Val  
     1                    5                    10                    15  
 Lys Arg Arg Gly Leu Gly Ala Pro Ala Gly Tyr Phe Thr Pro Ile Ala  
                     20                    25                    30  
 Val Asp Leu Trp Asn Val Met Tyr Thr Leu Val Val Lys Tyr Gln Arg  
                     35                    40                    45  
 Arg Tyr Pro Ser Tyr Asp Arg Glu Ala Ile Thr Leu His Cys Leu Cys  
                     50                    55                    60  
 Arg Leu Leu Lys Val Phe Thr Gln Lys Ser Leu Phe Pro Ile Phe Val  
                     65                    70                    75                    80  
 Thr Asp Arg Gly Val Asn Cys Met Glu Pro Val Val Phe Gly Ala Lys  
                     85                    90                    95  
 Ala Ile Leu Ala Arg Thr Thr Ala Gln Cys Arg Thr Asp Glu Glu Ala  
                     100                    105                    110  
 Ser Asp Val Asp Ala Ser Pro Pro Pro Ser Pro Ile Thr Asp Ser Arg  
                     115                    120                    125  
 Pro Ser Ser Ala Phe Ser Asn Met Arg Arg Arg Gly Thr Ser Leu Ala  
                     130                    135                    140  
 Ser Gly Thr Arg Gly Thr Ala Gly Ser Gly Ala Ala Leu Pro Ser Ala  
                     145                    150                    155                    160  
 Ala Pro Ser Lys Pro Ala Leu Arg Leu Ala His Leu Phe Cys Ile Arg  
                     165                    170                    175  
 Val Leu Arg Ala Leu Gly Tyr Ala Tyr Ile Asn Ser Gly Gln Leu Glu  
                     180                    185                    190  
 Ala Asp Asp Ala Cys Ala Asn Leu Tyr His Thr Asn Thr Val Ala Tyr  
                     195                    200                    205  
 Val Tyr Thr Thr Asp Thr Asp Leu Leu Leu Met Gly Cys Asp Ile Val  
                     210                    215                    220  
 Leu Asp Ile Ser Ala Cys Tyr Ile Pro Thr Ile Asn Cys Arg Asp Ile



225		230		235		240
Leu Lys Tyr Phe	Lys Met Ser Tyr	Pro Gln Phe Leu	Ala Leu Phe Val			
	245		250		255	
Arg Cys His Thr	Asp Leu His Pro	Asn Asn Thr Tyr	Ala Ser Val Glu			
	260	265	270			
Asp Val Leu Arg	Glu Cys His Trp	Thr Pro Pro Ser	Arg Ser Gln Thr			
	275	280	285			
Arg Arg Ala Ile	Arg Arg Glu His	Thr Ser Ser Arg	Ser Thr Glu Thr			
	290	295	300			
Arg Pro Pro Leu	Pro Pro Ala Ala	Gly Gly Thr Glu	Thr Arg Val Ser			
305	310	315	320			
Trp Thr Glu Ile	Leu Thr Gln Gln	Ile Ala Gly Gly	Tyr Glu Asp Asp			
	325	330	335			
Glu Asp Leu Pro	Leu Asp Pro Arg	Asp Val Thr Gly	Gly His Pro Gly			
	340	345	350			
Pro Arg Ser Ser	Ser Ser Glu Ile	Leu Thr Pro Pro	Glu Leu Val Gln			
	355	360	365			
Val Pro Asn Ala	Gln Leu Leu Glu	Glu His Arg Ser	Tyr Val Ala Asn			
	370	375	380			
Pro Arg Arg His	Val Ile His Asp	Ala Pro Glu Ser	Leu Asp Trp Leu			
385	390	395	400			
Pro Asp Pro Met	Thr Ile Thr Glu	Leu Val Glu His	Arg Tyr Ile Lys			
	405	410	415			
Tyr Val Ile Ser	Leu Ile Gly Pro	Lys Glu Arg Gly	Pro Trp Thr Leu			
	420	425	430			
Leu Lys Arg Leu	Pro Ile Tyr Gln	Asp Ile Arg Asp	Glu Asn Leu Ala			
	435	440	445			
Arg Ser Ile Val	Thr Arg His Ile	Thr Ala Pro Asp	Ile Ala Asp Arg			
	450	455	460			
Phe Leu Glu Gln	Leu Arg Thr Gln	Ala Pro Pro Pro	Ala Phe Tyr Lys			
465	470	475	480			
Asp Val Leu Ala	Lys Phe Trp Asp	Glu				
	485					

<210> 83  
 <211> 1257  
 <212> DNA  
 <213> Herpes Virus

<400> 83

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gtgacggaac caccgcgct gccatcacgg ccaaggcgcg ggatgctccg caacgacagc 60
caccggggccg tgtccccgga ggacggccag ggacgggtcg acgacggacg gccacacctc 120
gcgtgcgtgg gggccctggc gcgggggttc atgcatatct ggcttcaggc cgccacgctg 180
ggttttgctg gatcggtcgt tatgtcgctc gggcgtacg cgaatgccgc gtctggggcg 240
ttcgccgtcg ggtgcgcctg gctgggcttt atgcgcgcac cccctccctt cgcgcggccc 300
accgcgcgga tatacgctct gctcaaactg gcggccgggt gagcgccctt tgttctgtgg 360
agtctcgggg agcccggcac gcagccgggg gcccggggcc cggggccggc caccagtgct 420
ctggcactgg gcgcgccta tgcggcgctc ctggtgctcg ccgatgacgt ctatccgctc 480
tttctcctcg ccccggggcc cctgttcgtc ggcacctgg ggatggctgt cggcgggctg 540
acgatcggag gcagcgcgcg ctactggtgg atcgggtggc ccgcgcggc cgccctggcc 600
gcggcggtgt tggcgggccc gggggcgacc accgccaggg actgcttttc cagggttgc 660
cccgaccacc gccgcgtctg tgtcatcacc gcaggcgagt ctctttcccg ccgccccccg 720
gaggaccagc agcgaccggg gggtcccggg ccccgctccc ccccgacccc ccaacgatcc 780
cacggggcgc cggccgatga ggtcgcaccg gccagggtcg cgcggccgga aaacgtctgg 840
gtgcccgtgg tcacctttct gggggcgggc gcgcttgccg tcaagacggg gcgagaacat 900
gcccggggaa cgccggggcc gggcctgccg ctgtggcccc aggtgtttct cggaggccat 960
gtggcggtgg ccctgacgga gctgtgtcag gcgcttcgc cctgggacct tacggaccgg 1020
ctgctgtttg ttcacgcggg actgcaggtc atcaacctcg gggtgggtgt tcggttttcc 1080
gaggttgctg tgtatgcggc gctagggggg gccgtgtgga tttcgttggc gcaggtgctg 1140
gggctccggc gtcgcctgca caggaaggac cccggggacg gggcccggtt ggcggcgacg 1200
cttcggggcc tcttcttctc cgtgtacgcg ctgggggttt gggtgggggt gctgctg 1257

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<210> 84  
 <211> 419  
 <212> PRT  
 <213> Herpes Virus

```

<400> 84
Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg Gly Met Leu
  1          5          10          15

Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly Gln Gly Arg
  20          25          30

Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala Leu Ala Arg
  35          40          45

Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly Phe Ala Gly
  50          55          60

Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala Ser Gly Ala
  65          70          75          80

Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala Pro Pro Pro
  85          90          95

Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys Leu Ala Ala
 100          105          110

Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro Gly Thr Gln
 115          120          125

Pro Gly Ala Pro Ala Pro Gly Pro Ala Thr Gln Cys Leu Ala Leu Gly
 130          135          140

Ala Ala Tyr Ala Ala Leu Leu Val Leu Ala Asp Asp Val Tyr Pro Leu

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145		150		155		160									
Phe	Leu	Leu	Ala	Pro	Gly	Pro	Leu	Phe	Val	Gly	Thr	Leu	Gly	Met	Val
			165						170					175	
Val	Gly	Gly	Leu	Thr	Ile	Gly	Gly	Ser	Ala	Arg	Tyr	Trp	Trp	Ile	Gly
			180					185					190		
Gly	Pro	Ala	Ala	Ala	Ala	Leu	Ala	Ala	Ala	Val	Leu	Ala	Gly	Pro	Gly
		195					200					205			
Ala	Thr	Thr	Ala	Arg	Asp	Cys	Phe	Ser	Arg	Ala	Cys	Pro	Asp	His	Arg
	210					215					220				
Arg	Val	Cys	Val	Ile	Thr	Ala	Gly	Glu	Ser	Leu	Ser	Arg	Arg	Pro	Pro
225					230					235					240
Glu	Asp	Pro	Glu	Arg	Pro	Gly	Val	Pro	Gly	Pro	Pro	Ser	Pro	Pro	Thr
			245						250					255	
Pro	Gln	Arg	Ser	His	Gly	Pro	Pro	Ala	Asp	Glu	Val	Ala	Pro	Ala	Arg
			260					265					270		
Val	Ala	Arg	Pro	Glu	Asn	Val	Trp	Val	Pro	Val	Val	Thr	Phe	Leu	Gly
	275						280					285			
Ala	Gly	Ala	Leu	Ala	Val	Lys	Thr	Val	Arg	Glu	His	Ala	Arg	Gly	Thr
	290					295					300				
Pro	Gly	Pro	Gly	Leu	Pro	Leu	Trp	Pro	Gln	Val	Phe	Leu	Gly	Gly	His
305					310					315					320
Val	Ala	Val	Ala	Leu	Thr	Glu	Leu	Cys	Gln	Ala	Leu	Pro	Pro	Trp	Asp
			325						330					335	
Leu	Thr	Asp	Pro	Leu	Leu	Phe	Val	His	Ala	Gly	Leu	Gln	Val	Ile	Asn
			340					345					350		
Leu	Gly	Leu	Val	Phe	Arg	Phe	Ser	Glu	Val	Val	Val	Tyr	Ala	Ala	Leu
	355						360					365			
Gly	Gly	Ala	Val	Trp	Ile	Ser	Leu	Ala	Gln	Val	Leu	Gly	Leu	Arg	Arg
	370					375					380				
Arg	Leu	His	Arg	Lys	Asp	Pro	Gly	Asp	Gly	Ala	Arg	Leu	Ala	Ala	Thr
385					390					395					400
Leu	Arg	Gly	Leu	Phe	Phe	Ser	Val	Tyr	Ala	Leu	Gly	Phe	Gly	Val	Gly
			405						410					415	
Val	Leu	Leu													

<210> 85  
 <211> 1305  
 <212> DNA

<213> Herpes Virus

<400> 85

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atgtggggcg tgacggaacc acccgcgtg ccatcacggc caaggcgcg gatgctccgc 60
aacgacagcc accgggcccgt gtccccggag gacggccagg gacgggtcga cgacggacgg 120
ccacacctcg cgtgctggtg ggccttggtg cgggggttca tgcatactcg gcttcaggcc 180
gccacgctgg gttttgcggg atcggtcggt atgtcgcgcg ggccgtacgc gaatgcccgcg 240
tctggggcgt tcgccgtcgg gtgcgccgtg ctgggcttta tgcgcgcacc ccctcccctc 300
gcgcggccca ccgcgcggat atacgcctgg ctcaaactgg cggccggtgg agcggcccctt 360
gttctgtgga gtctcgggga gcccggcacg cagccggggg ccccgggccc gggcccggcc 420
accagtgccc tggcactggg cgcgcctat gcggcgctcc tgggtgctcg cgatgacgtc 480
tatccgctct ttctcctcgc cccggggccc ctgttcgtcg gcaccctggg gatggtcgtc 540
ggcgggctga cgatcggagg cagcgcgcgc tactgggtga tcggtgggcc cgcgcgggcc 600
gccctggccg cggcggtggt ggcggggccc ggggcgacca ccgccaggga ctgcttttcc 660
agggcttgcc ccgaccaccg ccgcgtctgt gtcaccaccg caggcgagtc tctttccgc 720
cgcccccccg aggaccaga gcgaccggg gttcccgggc ccccgctccc cccgaccccc 780
caacgatccc acgggcccgc ggccgatgag gtccgcaccg ccagggtcgc gcggcccga 840
aacgtctggg tgcccgtggt cacttttctg ggggcgggcg cgcttgccgt caagacgggtg 900
cgagaacatg cccggggaac gccggggccc ggcctgccgc tgtggcccca ggtgtttctc 960
ggaggccatg tggcggtggc cctgacggag ctgtgtcagg cgcttcgcc ctgggacctt 1020
acggaccgcg tgctgtttgt tcacgccgga ctgcaggtca tcaacctcgg gttggtgttt 1080
cggttttccg aggttgctgt gtatgcggcg ctaggggggt cctgtgtgat ttcgttggcg 1140
caggtgctgg ggctccggcg tcgcctgcac aggaaggacc ccggggacgg ggcccgggtt 1200
gcggcgacgc ttcggggcct cttcttctcc gtgtacgcgc tggggtttgg ggtgggggtg 1260
ctgctgtgcc ctccggggtc aacgggcggg cggtcgggcg attga 1305

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<210> 86

<211> 434

<212> PRT

<213> Herpes Virus

<400> 86

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Met Trp Gly Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg
 1 . 5 10 15

Gly Met Leu Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly
 20 25 30

Gln Gly Arg Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala
 35 40 45

Leu Ala Arg Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly
 50 55 60

Phe Ala Gly Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala
 65 70 75 80

Ser Gly Ala Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala
 85 90 95

Pro Pro Pro Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys
 100 105 110

Leu Ala Ala Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro
 115 120 125

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Gly	Thr	Gln	Pro	Gly	Ala	Pro	Ala	Pro	Gly	Pro	Ala	Thr	Gln	Cys	Leu	130	135	140
Ala	Leu	Gly	Ala	Ala	Tyr	Ala	Ala	Leu	Leu	Val	Leu	Ala	Asp	Asp	Val	145	150	155
Tyr	Pro	Leu	Phe	Leu	Leu	Ala	Pro	Gly	Pro	Leu	Phe	Val	Gly	Thr	Leu	165	170	175
Gly	Met	Val	Val	Gly	Gly	Leu	Thr	Ile	Gly	Gly	Ser	Ala	Arg	Tyr	Trp	180	185	190
Trp	Ile	Gly	Gly	Pro	Ala	Ala	Ala	Ala	Leu	Ala	Ala	Ala	Val	Leu	Ala	195	200	205
Gly	Pro	Gly	Ala	Thr	Thr	Ala	Arg	Asp	Cys	Phe	Ser	Arg	Ala	Cys	Pro	210	215	220
Asp	His	Arg	Arg	Val	Cys	Val	Ile	Thr	Ala	Gly	Glu	Ser	Leu	Ser	Arg	225	230	235
Arg	Pro	Pro	Glu	Asp	Pro	Glu	Arg	Pro	Gly	Val	Pro	Gly	Pro	Pro	Ser	245	250	255
Pro	Pro	Thr	Pro	Gln	Arg	Ser	His	Gly	Pro	Pro	Ala	Asp	Glu	Val	Ala	260	265	270
Pro	Ala	Arg	Val	Ala	Arg	Pro	Glu	Asn	Val	Trp	Val	Pro	Val	Val	Thr	275	280	285
Phe	Leu	Gly	Ala	Gly	Ala	Leu	Ala	Val	Lys	Thr	Val	Arg	Glu	His	Ala	290	295	300
Arg	Gly	Thr	Pro	Gly	Pro	Gly	Leu	Pro	Leu	Trp	Pro	Gln	Val	Phe	Leu	305	310	315
Gly	Gly	His	Val	Ala	Val	Ala	Leu	Thr	Glu	Leu	Cys	Gln	Ala	Leu	Pro	325	330	335
Pro	Trp	Asp	Leu	Thr	Asp	Pro	Leu	Leu	Phe	Val	His	Ala	Gly	Leu	Gln	340	345	350
Val	Ile	Asn	Leu	Gly	Leu	Val	Phe	Arg	Phe	Ser	Glu	Val	Val	Val	Tyr	355	360	365
Ala	Ala	Leu	Gly	Gly	Ala	Val	Trp	Ile	Ser	Leu	Ala	Gln	Val	Leu	Gly	370	375	380
Leu	Arg	Arg	Arg	Leu	His	Arg	Lys	Asp	Pro	Gly	Asp	Gly	Ala	Arg	Leu	385	390	395
Ala	Ala	Thr	Leu	Arg	Gly	Leu	Phe	Phe	Ser	Val	Tyr	Ala	Leu	Gly	Phe	405	410	415
Gly	Val	Gly	Val	Leu	Leu	Cys	Pro	Pro	Gly	Ser	Thr	Gly	Gly	Arg	Ser	420	425	430

Gly Asp

<210> 87  
<211> 711  
<212> DNA  
<213> Herpes Virus

<400> 87  
gtggctcctgt ggagcctggt gtggctcggg gcgggggtgt ccgggggctc ggaaactgcc 60  
tccaccgggc ccacgacac cgcgggagcg gtgacgaacg cgagcgaggc cccacatcg 120  
gggtcccccg ggtagccgc cagcccggag gtcaccccca catcgacccc aaacccaac 180  
aatgtcacac aaaacaaaac cccccccacc gagcgggcca gcccccaac aacccaag 240  
cccacctcca cgccaaaag cccccccag tccaccccg accccaaacc caagaacaac 300  
accacccccg ccaagtcggg ccgccccact aaaccccccg ggcccggtg gtgcgaccgc 360  
cgcgacccat tggcccggtg cggtcgcgg gtgcagatcc gatgccggtt tcggaattcc 420  
accgcgatgg agttccgct ccagatatgg cgttactcca tgggtcgcgc ccccccaatc 480  
gctccggctc ccgacctaga ggaggtcctg acgaacatca ccgccccacc cgggggactc 540  
ctgggtgtacg acagcgcccc caacctaacg gacccccacg tgctctgggc ggagggggcc 600  
ggcccgggcg ccgacctcc gttgtattct gtcaccgggc cgctgccgac ccagcggctg 660  
attatcgggc aggtgacgcc cgcgaccag ggaatgtatt acttggcctg g 711

<210> 88  
<211> 237  
<212> PRT  
<213> Herpes Virus

<400> 88  
Val Val Leu Trp Ser Leu Leu Trp Leu Gly Ala Gly Val Ser Gly Gly  
1 5 10 15  
Ser Glu Thr Ala Ser Thr Gly Pro Thr Ile Thr Ala Gly Ala Val Thr  
20 25 30  
Asn Ala Ser Glu Ala Pro Thr Ser Gly Ser Pro Gly Ser Ala Ala Ser  
35 40 45  
Pro Glu Val Thr Pro Thr Ser Thr Pro Asn Pro Asn Asn Val Thr Gln  
50 55 60  
Asn Lys Thr Thr Pro Thr Glu Pro Ala Ser Pro Pro Thr Thr Pro Lys  
65 70 75 80  
Pro Thr Ser Thr Pro Lys Ser Pro Pro Thr Ser Thr Pro Asp Pro Lys  
85 90 95  
Pro Lys Asn Asn Thr Thr Pro Ala Lys Ser Gly Arg Pro Thr Lys Pro  
100 105 110  
Pro Gly Pro Val Trp Cys Asp Arg Arg Asp Pro Leu Ala Arg Tyr Gly  
115 120 125  
Ser Arg Val Gln Ile Arg Cys Arg Phe Arg Asn Ser Thr Arg Met Glu  
130 135 140

Phe Arg Leu Gln Ile Trp Arg Tyr Ser Met Gly Pro Ser Pro Pro Ile  
 145 150 155 160  
 Ala Pro Ala Pro Asp Leu Glu Glu Val Leu Thr Asn Ile Thr Ala Pro  
 165 170 175  
 Pro Gly Gly Leu Leu Val Tyr Asp Ser Ala Pro Asn Leu Thr Asp Pro  
 180 185 190  
 His Val Leu Trp Ala Glu Gly Ala Gly Pro Gly Ala Asp Pro Pro Leu  
 195 200 205  
 Tyr Ser Val Thr Gly Pro Leu Pro Thr Gln Arg Leu Ile Ile Gly Glu  
 210 215 220  
 Val Thr Pro Ala Thr Gln Gly Met Tyr Tyr Leu Ala Trp  
 225 230 235

<210> 89  
 <211> 1536  
 <212> DNA  
 <213> Herpes Virus

<400> 89  
 atggccccgg ggcgggtggg ccttgccgtg gtcctgtgga gcctgttgtg gctcggggcg 60  
 ggggtgtccg ggggctcgga aactgcctcc accgggcccc cgatcaccgc gggagcgggtg 120  
 acgaacgcga gcgaggcccc cacatcgggg tccccgggt cagccgccag cccggaggtc 180  
 acccccacat cgaccccaaa cccaacaat gtcacacaaa acaaaaccac ccccaccgag 240  
 ccggccagcc cccaacaac cccaagccc acctccagc ccaaagccc cccacgtcc 300  
 acccccgacc caaaacccaa gaacaacacc acccccgcca agtcggggcg cccactaaa 360  
 cccccgggc ccgtgtggtg cgaccgcgc gaccatttg cccggtagcg ctgcgggtg 420  
 cagatccgat gccggtttcg gaattccacc cgcattgagt tccgcctcca gatatggcg 480  
 tactccatgg gtccgtcccc ccaatcgct ccggctcccg acctagagga ggtcctgacg 540  
 aacatcaccg cccaccccg gggactcctg gtgtacgaca gcgcccccaa cctaaccggac 600  
 cccacgtgc tctgggcgga gggggccggc ccgggcgcgc accctccgtt gtattctgtc 660  
 accgggcccgc tgcgaccca gcggtgatt atcggcgagg tgacgcccgc gaccaggga 720  
 atgtattact tggcctgggg ccggatggac agccgcacg agtacgggac gtgggtgcgc 780  
 gtccgcattg tccgcccccc gtctctgacc ctccagcccc acgcggtgat ggagggtcag 840  
 ccgttcaagg cgacgtgcac ggccgcgcgc tactaccgc gtaaccccg ggagtttgtc 900  
 tggttcgagg acgaccacca ggtgtttaac ccgggccaga tcgacacgca gacgcacgag 960  
 caccgcgacg gggtcaccac agtctctacc gtgacctcc aggtgtcgg cggccagggtc 1020  
 ccccgcgga cttcacctg ccagatgacg tggcatcgcg actccgtgac gttctcgca 1080  
 cgcaatgcca ccgggctggc cctggtgctg ccgcgccaa ccatcaccat ggaatttggg 1140  
 gtccgcattg tggctgcac ggccggtgc gtccccgagg gcgtgacgtt tgcttggttc 1200  
 ctgggggacg accctcacc ggccgctaag tcggccgcta cggccagga gtcgtgcgac 1260  
 cccccgggc tggctacggt ccggtccacc ctgcccattt cgtacgacta cagcgagtac 1320  
 atctgtcggg tgaccggata tccggccggg attcccgttc tagaacacca cggcagtcac 1380  
 cagccccac ccagggaccc caccgagcgg caggtgatcg aggcgatcga gtgggtgggg 1440  
 attggaatcg gggttctcgc ggccgggggtc ctggtcgtaa cggcaatcgt gtacgtcgtc 1500  
 cgcacatcac agtcgcggca gcgtcatcgg cggtaa 1536

<210> 90  
 <211> 511  
 <212> PRT  
 <213> Herpes Virus

<400> 90

Met Ala Pro Gly Arg Val Gly Leu Ala Val Val Leu Trp Ser Leu Leu  
1 5 10 15

Trp Leu Gly Ala Gly Val Ser Gly Gly Ser Glu Thr Ala Ser Thr Gly  
20 25 30

Pro Thr Ile Thr Ala Gly Ala Val Thr Asn Ala Ser Glu Ala Pro Thr  
35 40 45

Ser Gly Ser Pro Gly Ser Ala Ala Ser Pro Glu Val Thr Pro Thr Ser  
50 55 60

Thr Pro Asn Pro Asn Asn Val Thr Gln Asn Lys Thr Thr Pro Thr Glu  
65 70 75 80

Pro Ala Ser Pro Pro Thr Thr Pro Lys Pro Thr Ser Thr Pro Lys Ser  
85 90 95

Pro Pro Thr Ser Thr Pro Asp Pro Lys Pro Lys Asn Asn Thr Thr Pro  
100 105 110

Ala Lys Ser Gly Arg Pro Thr Lys Pro Pro Gly Pro Val Trp Cys Asp  
115 120 125

Arg Arg Asp Pro Leu Ala Arg Tyr Gly Ser Arg Val Gln Ile Arg Cys  
130 135 140

Arg Phe Arg Asn Ser Thr Arg Met Glu Phe Arg Leu Gln Ile Trp Arg  
145 150 155 160

Tyr Ser Met Gly Pro Ser Pro Pro Ile Ala Pro Ala Pro Asp Leu Glu  
165 170 175

Glu Val Leu Thr Asn Ile Thr Ala Pro Pro Gly Gly Leu Leu Val Tyr  
180 185 190

Asp Ser Ala Pro Asn Leu Thr Asp Pro His Val Leu Trp Ala Glu Gly  
195 200 205

Ala Gly Pro Gly Ala Asp Pro Pro Leu Tyr Ser Val Thr Gly Pro Leu  
210 215 220

Pro Thr Gln Arg Leu Ile Ile Gly Glu Val Thr Pro Ala Thr Gln Gly  
225 230 235 240

Met Tyr Tyr Leu Ala Trp Gly Arg Met Asp Ser Pro His Glu Tyr Gly  
245 250 255

Thr Trp Val Arg Val Arg Met Phe Arg Pro Pro Ser Leu Thr Leu Gln  
260 265 270

Pro His Ala Val Met Glu Gly Gln Pro Phe Lys Ala Thr Cys Thr Ala  
275 280 285

Ala Ala Tyr Tyr Pro Arg Asn Pro Val Glu Phe Val Trp Phe Glu Asp



290	295	300
Asp His Gln Val Phe Asn Pro Gly Gln Ile Asp Thr Gln Thr His Glu		
305	310	315 320
His Pro Asp Gly Phe Thr Thr Val Ser Thr Val Thr Ser Glu Ala Val		
	325	330 335
Gly Gly Gln Val Pro Pro Arg Thr Phe Thr Cys Gln Met Thr Trp His		
	340	345 350
Arg Asp Ser Val Thr Phe Ser Arg Arg Asn Ala Thr Gly Leu Ala Leu		
	355	360 365
Val Leu Pro Arg Pro Thr Ile Thr Met Glu Phe Gly Val Arg Ile Val		
	370	375 380
Val Cys Thr Ala Gly Cys Val Pro Glu Gly Val Thr Phe Ala Trp Phe		
385	390	395 400
Leu Gly Asp Asp Pro Ser Pro Ala Ala Lys Ser Ala Val Thr Ala Gln		
	405	410 415
Glu Ser Cys Asp His Pro Gly Leu Ala Thr Val Arg Ser Thr Leu Pro		
	420	425 430
Ile Ser Tyr Asp Tyr Ser Glu Tyr Ile Cys Arg Leu Thr Gly Tyr Pro		
	435	440 445
Ala Gly Ile Pro Val Leu Glu His His Gly Ser His Gln Pro Pro Pro		
450	455	460
Arg Asp Pro Thr Glu Arg Gln Val Ile Glu Ala Ile Glu Trp Val Gly		
465	470	475 480
Ile Gly Ile Gly Val Leu Ala Ala Gly Val Leu Val Val Thr Ala Ile		
	485	490 495
Val Tyr Val Val Arg Thr Ser Gln Ser Arg Gln Arg His Arg Arg		
	500	505 510

<210> 91  
 <211> 843  
 <212> DNA  
 <213> Herpes Virus

<400> 91  
 gatgagtacg aggatctgta ctacaccccg tcttcaggta tggcgagtcc cgatagtccg 60  
 cctgacacct cccgccgtgg cgccctacag acacgctcgc gccagagggg cgaggtccgt 120  
 ttcgtccagt acgacgagtc ggattatgcc ctctacgggg gctcgtcatc cgaagacgac 180  
 gaacaccccg aggtcccccg gacgcggcgt cccgtttccg gggcggtttt gtccggcccc 240  
 gggcctgcgc gggcgctcc gccacccgct gggtcggag gggccggacg cacaccacc 300  
 accgcccccc gggccccccg aaccagcgg gtggcgacta aggccccgc ggccccggcg 360  
 gcggagacca cccgcggcag gaaatcggcc cagccagaat ccgccgact ccagacgcc 420  
 cccgcgtcga cggcgccaac ccgatccaag acaccgcgc aggggctggc cagaaagctg 480  
 cacttttagca ccgccccccc aaaccccgac gcgccatgga ccccccgggt ggccggcttt 540

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aacaagcgcg tcttctgcgc cgcggtcggg cgcctggcgg ccatgcatgc ccggatggcg 600
gcggtccagc tctgggacat gtcgcgtccg cgcacagacg aagacctcaa cgaactcctt 660
ggcatcacca ccatccgcgt gacggtctgc gagggcaaaa acctgcttca gcgcgccaac 720
gagttggtga atccagacgt ggtgcaggac gtcgacgcgg ccacggcgac tcgagggcgt 780
tctgcggcgt cgcgccccac cgagcgacct cgagccccag cccgctccgc ttctcgcccc 840
aga

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<210> 92  
 <211> 281  
 <212> PRT  
 <213> Herpes Virus

```

<400> 92
Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
  1              5              10              15

Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
      20              25              30

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
      35              40              45

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
      50              55              60

Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro
      65              70              75              80

Gly Pro Ala Arg Ala Pro Pro Pro Pro Ala Gly Ser Gly Gly Ala Gly
      85              90              95

Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gln Arg Val Ala
      100             105             110

Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly Arg Lys
      115             120             125

Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala Ser Thr
      130             135             140

Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg Lys Leu
      145             150             155             160

His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr Pro Arg
      165             170             175

Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly Arg Leu
      180             185             190

Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp Met Ser
      195             200             205

Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile Thr Thr
      210             215             220

Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg Ala Asn

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```

<400> 94
Met Thr Ser Arg Arg Ser Val Lys Ser Gly Pro Arg Glu Val Pro Arg
  1             5             10             15

Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
      20             25             30

Pro Asp Ser Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
      35             40             45

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
      50             55             60

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
      65             70             75             80

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cacgccgacc cgcggcgctt ccattttcac gccccgccca cctatctcgc ttccccccgg 540
gagatccgtg tcctgcacag cctgggtggg gactatgtga gcttctttga aaggaaggcg 600
tcccgcacg cgctggaaca ctttgggcga cgcgagacc tgacggaggt cctgggtcgg 660
tacaacgtac agccggatgc gggggggacc gtcgaggggt tcgcatcgga actgctgggg 720
cggatagtcg cgtgcatcga aaccacttt cccgaacacg ccggcgaata tcaggccgta 780
tccgtccggc gggccgtcag taaggacgac tgggtcctcc tacagctagt ccccgttcgc 840
ggtaccctgc agcaaagcct gtcgtgtctg cgctttaagc acggccgggc gagtcgcgcc 900
acggcgcgga cattcgtcgc gctgagcgtc ggggccaaca accgcctgtg cgtgtccttg 960
tgtcagcagt gctttgccgc caaatgcgac agcaaccgcc tgcacacgct gtttaccatt 1020
gac 1023

```

<210> 96  
 <211> 341  
 <212> PRT  
 <213> Herpes Virus

```

<400> 96
Asp Trp Phe Pro Cys Tyr Asp Asp Ala Gly Asp Glu Glu Trp Ala Glu
  1             5             10             15

Asp Pro Gly Ala Met Asp Thr Ser His Asp Pro Pro Asp Asp Glu Val
          20             25             30

Ala Tyr Phe Asp Leu Cys His Glu Val Gly Pro Thr Ala Glu Pro Arg
          35             40             45

Glu Thr Asp Ser Pro Val Cys Ser Cys Thr Asp Lys Ile Gly Leu Arg
          50             55             60

Val Cys Met Pro Val Pro Ala Pro Tyr Val Val His Gly Ser Leu Thr
          65             70             75             80

Met Arg Gly Val Ala Arg Val Ile Gln Gln Ala Val Leu Leu Asp Arg
          85             90             95

Asp Phe Val Glu Ala Ile Gly Ser Tyr Val Lys Asn Phe Leu Leu Ile
          100            105            110

Asp Thr Gly Val Tyr Ala His Gly His Ser Leu Arg Leu Pro Tyr Phe
          115            120            125

Ala Lys Ile Ala Pro Asp Gly Pro Ala Cys Gly Arg Leu Leu Pro Val
          130            135            140

Phe Val Ile Pro Pro Ala Cys Lys Asp Val Pro Ala Phe Val Ala Ala
          145            150            155            160

His Ala Asp Pro Arg Arg Phe His Phe His Ala Pro Pro Thr Tyr Leu
          165            170            175

Ala Ser Pro Arg Glu Ile Arg Val Leu His Ser Leu Gly Gly Asp Tyr
          180            185            190

Val Ser Phe Phe Glu Arg Lys Ala Ser Arg Asn Ala Leu Glu His Phe
          195            200            205

```

Gly Arg Arg Glu Thr Leu Thr Glu Val Leu Gly Arg Tyr Asn Val Gln  
 210 215 220  
 Pro Asp Ala Gly Gly Thr Val Glu Gly Phe Ala Ser Glu Leu Leu Gly  
 225 230 235 240  
 Arg Ile Val Ala Cys Ile Glu Thr His Phe Pro Glu His Ala Gly Glu  
 245 250 255  
 Tyr Gln Ala Val Ser Val Arg Arg Ala Val Ser Lys Asp Asp Trp Val  
 260 265 270  
 Leu Leu Gln Leu Val Pro Val Arg Gly Thr Leu Gln Gln Ser Leu Ser  
 275 280 285  
 Cys Leu Arg Phe Lys His Gly Arg Ala Ser Arg Ala Thr Ala Arg Thr  
 290 295 300  
 Phe Val Ala Leu Ser Val Gly Ala Asn Asn Arg Leu Cys Val Ser Leu  
 305 310 315 320  
 Cys Gln Gln Cys Phe Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr  
 325 330 335  
 Leu Phe Thr Ile Asp  
 340

<210> 97  
 <211> 3177  
 <212> DNA  
 <213> Herpes Virus

<400> 97  
 atggggcagg aagacgggaa ccgcggggag aggcggggcg cggggactcc cgtggaggtg 60  
 accgcgcttt atgcgaccga cgggtgcgtt attacctctt cgatcgccct cctcacaac 120  
 tctctactgg gggccgagcc ggtttatata ttcagctacg acgcatacac gcacgatggc 180  
 cgtgccgacg ggcccacgga gcaagacagg ttcgaagaga gtcggggcgt ctaccaagcg 240  
 tcggggcggc taaatggcga ctccctccga gtaacctttt gtttattggg gacggaagtg 300  
 ggtgggaccc accaggcccg cgggcgaacc cgacccatgt tcgtctgtcg cttcgagcga 360  
 gcggacgacg tcgccgcgct acaggacgcc ctggcgacag ggaccccgt acaaccggac 420  
 cacatcgccg ccaccctgga cgcgagggcc acgttcgcgc tgcattgcga catgatcctg 480  
 gctctcaccg tggccatcaa caacgccagc ccccgacccg gacgcgacgc cgccgcggcg 540  
 cagtatgatc agggcgcgct cctacgctcg ctcggtgggg gcacgtccct gggacaacgc 600  
 ggccttacca cgctatacgt ccaccacgag gtgcgcgtgc ttgccgcgta ccgcagggcg 660  
 tattatggaa gcgcgcagag tcccttctgg tttcttagca aattcggggc ggacgaaaaa 720  
 agcctggtgc tcaccactcg gtactacctg cttcaggccc agcgtctggg gggcgcgggg 780  
 gccacgtacg acctgcaggc catcaaggac atctgcgcca cctacgcgat tccccacgcc 840  
 ccccgccccg acaccgtcag cgctgcgtcc ctgacctcgt ttgccgccat cagcggttc 900  
 tgttgacaga gccagtacgc ccgcggggcc gcggcgggcg ggtttccgct ttacgtggag 960  
 cgccgtattg cggccgacgt ccgcgagacc agtgcgctgg agaagttcat aaccacgat 1020  
 cgcatgtgcc tgcgcgtgtc cgaccgtgaa ttcattacgt acatctacct ggcccatttt 1080  
 gagtgtttca gccccccgcg cctagccacg catcttcggg ccgtgacgac ccacgacccc 1140  
 aaccccgcgg ccagcacgga gcagccctcg cccctgggca gggaggccgt ggaacaattt 1200  
 ttttgtcacg tgcgcgcca actgaatatc ggggagtagc tcaaacacaa cgtgaccccc 1260  
 cgggagaccg tcctggatgg cgatacggcc aaggcctacc tgcgcgctcg cacgtacgcg 1320  
 cccggggccc tgacgcccgc ccccgcgat tgcggggccg tggactccgc caccaaatg 1380

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atggggcggtt tggcggacgc cgaaaagctc ctgggtcccc gcgggtggcc cgcgtttgcg 1440
cccgccagtc ccggggagga cacggcgggc ggcacgccgc cccacagac ctgcggaatt 1500
gtcaagcgcc tcctgagact ggccgccacg gaacagcagg gcccacacc cccggcgatc 1560
gcggcgctta tccgtaatgc ggcggtgcag actccccctgc cgtctaccg gatatccatg 1620
gtccccacgg gacaggcatt tgccgcgctg gcctgggacg actgggcccg cataacgcgg 1680
gacgctcgcc tggccgaagc ggtcgtgtcc gccgaagcgg cggcgacccc cgaccacggc 1740
gcgctgggca ggcggtcac ggatcgcatc cgcgccagg gccccgtgat gccccctggc 1800
ggcctggatg ccggggggca gatgtacgtg aatcgcaacg agatattcaa cggcgcgctg 1860
gcaatcacia acatcatcct ggatctcgac atcgccctga aggagcccgt cccctttcgc 1920
cggctccacg aggccttggg ccactttagg cgcggggctc tggtgcggg tcagctcctg 1980
tttcccgcg cccgcgtgga ccccgacgca tatccctgtt attttttcaa aagcgcatgt 2040
cggccccgcc cggcgctcgt gggttccggc agcggactcg gcaacgacga cgacggggac 2100
tggtttccct gctacgacga cgccggtgat gaggagtggg cggaggaccc gggcgccatg 2160
gacacatccc acgatcccc ggacgacgag gttgcctact ttgacctgtg ccacgaagtc 2220
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ggactgcggg tgtgcatgcc cgtccccgcc ccgtacgtcg tccacggttc tctaacgatg 2340
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cgcaacgcgc tggaacactt tgggcgacgc gagacctga cggaggtcct gggtcggtac 2760
aacgtacagc cggatgcggg ggggaccgtc gaggggttcg catcggaact gctggggcgg 2820
atagtgcgct gcatcgaaac ccactttccc gaacacgccg gcgaatatca ggccgtatcc 2880
gtccggcggg ccgtcagtaa ggacgactgg gtctctctac agctagtccc cgttcgcggt 2940
accctgcagc aaagcctgtc gtgtctgcgc tttaagcacg gccgggcgag tcgcgccacg 3000
gcgcgacat tcgtcgcgct gagcgtcggg gccacaacc gcctgtgcgt gtccttgtgt 3060
cagcagtgtc ttgccgcaa atgcgacgc aaccgcctgc acacgtgtt taccattgac 3120
gccggcacgc catgctcgcc gtccgttccc tgcagcacct ctcaaccgtc gtcttga 3177

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<210> 98  
 <211> 1058  
 <212> PRT  
 <213> Herpes Virus

```

<400> 98
Met Gly Gln Glu Asp Gly Asn Arg Gly Glu Arg Arg Ala Ala Gly Thr
  1                      5                      10                      15

Pro Val Glu Val Thr Ala Leu Tyr Ala Thr Asp Gly Cys Val Ile Thr
          20                      25                      30

Ser Ser Ile Ala Leu Leu Thr Asn Ser Leu Leu Gly Ala Glu Pro Val
          35                      40                      45

Tyr Ile Phe Ser Tyr Asp Ala Tyr Thr His Asp Gly Arg Ala Asp Gly
          50                      55                      60

Pro Thr Glu Gln Asp Arg Phe Glu Glu Ser Arg Ala Leu Tyr Gln Ala
          65                      70                      75                      80

Ser Gly Gly Leu Asn Gly Asp Ser Phe Arg Val Thr Phe Cys Leu Leu
          85                      90                      95

Gly Thr Glu Val Gly Gly Thr His Gln Ala Arg Gly Arg Thr Arg Pro

```

100					105					110					
Met	Phe	Val	Cys	Arg	Phe	Glu	Arg	Ala	Asp	Asp	Val	Ala	Ala	Leu	Gln
		115					120					125			
Asp	Ala	Leu	Ala	His	Gly	Thr	Pro	Leu	Gln	Pro	Asp	His	Ile	Ala	Ala
	130					135					140				
Thr	Leu	Asp	Ala	Glu	Ala	Thr	Phe	Ala	Leu	His	Ala	Asn	Met	Ile	Leu
	145					150					155				160
Ala	Leu	Thr	Val	Ala	Ile	Asn	Asn	Ala	Ser	Pro	Arg	Thr	Gly	Arg	Asp
			165						170					175	
Ala	Ala	Ala	Ala	Gln	Tyr	Asp	Gln	Gly	Ala	Ser	Leu	Arg	Ser	Leu	Val
			180					185					190		
Gly	Arg	Thr	Ser	Leu	Gly	Gln	Arg	Gly	Leu	Thr	Thr	Leu	Tyr	Val	His
		195					200					205			
His	Glu	Val	Arg	Val	Leu	Ala	Ala	Tyr	Arg	Arg	Ala	Tyr	Tyr	Gly	Ser
	210					215					220				
Ala	Gln	Ser	Pro	Phe	Trp	Phe	Leu	Ser	Lys	Phe	Gly	Pro	Asp	Glu	Lys
	225					230					235				240
Ser	Leu	Val	Leu	Thr	Thr	Arg	Tyr	Tyr	Leu	Leu	Gln	Ala	Gln	Arg	Leu
			245						250					255	
Gly	Gly	Ala	Gly	Ala	Thr	Tyr	Asp	Leu	Gln	Ala	Ile	Lys	Asp	Ile	Cys
			260					265					270		
Ala	Thr	Tyr	Ala	Ile	Pro	His	Ala	Pro	Arg	Pro	Asp	Thr	Val	Ser	Ala
		275					280					285			
Ala	Ser	Leu	Thr	Ser	Phe	Ala	Ala	Ile	Thr	Arg	Phe	Cys	Cys	Thr	Ser
		290					295					300			
Gln	Tyr	Ala	Arg	Gly	Ala	Ala	Ala	Ala	Gly	Phe	Pro	Leu	Tyr	Val	Glu
	305					310					315				320
Arg	Arg	Ile	Ala	Ala	Asp	Val	Arg	Glu	Thr	Ser	Ala	Leu	Glu	Lys	Phe
			325						330					335	
Ile	Thr	His	Asp	Arg	Ser	Cys	Leu	Arg	Val	Ser	Asp	Arg	Glu	Phe	Ile
			340					345					350		
Thr	Tyr	Ile	Tyr	Leu	Ala	His	Phe	Glu	Cys	Phe	Ser	Pro	Pro	Arg	Leu
		355					360					365			
Ala	Thr	His	Leu	Arg	Ala	Val	Thr	Thr	His	Asp	Pro	Asn	Pro	Ala	Ala
		370					375					380			
Ser	Thr	Glu	Gln	Pro	Ser	Pro	Leu	Gly	Arg	Glu	Ala	Val	Glu	Gln	Phe
	385					390					395				400
Phe	Cys	His	Val	Arg	Ala	Gln	Leu	Asn	Ile	Gly	Glu	Tyr	Val	Lys	His



405					410					415					
Asn	Val	Thr	Pro	Arg	Glu	Thr	Val	Leu	Asp	Gly	Asp	Thr	Ala	Lys	Ala
			420					425					430		
Tyr	Leu	Arg	Ala	Arg	Thr	Tyr	Ala	Pro	Gly	Ala	Leu	Thr	Pro	Ala	Pro
			435					440					445		
Ala	Tyr	Cys	Gly	Ala	Val	Asp	Ser	Ala	Thr	Lys	Met	Met	Gly	Arg	Leu
			450					455					460		
Ala	Asp	Ala	Glu	Lys	Leu	Leu	Val	Pro	Arg	Gly	Trp	Pro	Ala	Phe	Ala
			465					470					475		480
Pro	Ala	Ser	Pro	Gly	Glu	Asp	Thr	Ala	Gly	Gly	Thr	Pro	Pro	Pro	Gln
				485					490					495	
Thr	Cys	Gly	Ile	Val	Lys	Arg	Leu	Leu	Arg	Leu	Ala	Ala	Thr	Glu	Gln
			500					505					510		
Gln	Gly	Pro	Thr	Pro	Pro	Ala	Ile	Ala	Ala	Leu	Ile	Arg	Asn	Ala	Ala
			515					520					525		
Val	Gln	Thr	Pro	Leu	Pro	Val	Tyr	Arg	Ile	Ser	Met	Val	Pro	Thr	Gly
			530					535					540		
Gln	Ala	Phe	Ala	Ala	Leu	Ala	Trp	Asp	Asp	Trp	Ala	Arg	Ile	Thr	Arg
			545					550					555		560
Asp	Ala	Arg	Leu	Ala	Glu	Ala	Val	Val	Ser	Ala	Glu	Ala	Ala	Ala	His
			565						570					575	
Pro	Asp	His	Gly	Ala	Leu	Gly	Arg	Arg	Leu	Thr	Asp	Arg	Ile	Arg	Ala
			580					585					590		
Gln	Gly	Pro	Val	Met	Pro	Pro	Gly	Gly	Leu	Asp	Ala	Gly	Gly	Gln	Met
			595					600					605		
Tyr	Val	Asn	Arg	Asn	Glu	Ile	Phe	Asn	Gly	Ala	Leu	Ala	Ile	Thr	Asn
			610					615					620		
Ile	Ile	Leu	Asp	Leu	Asp	Ile	Ala	Leu	Lys	Glu	Pro	Val	Pro	Phe	Arg
			625					630					635		640
Arg	Leu	His	Glu	Ala	Leu	Gly	His	Phe	Arg	Arg	Gly	Ala	Leu	Ala	Ala
			645						650				655		
Val	Gln	Leu	Leu	Phe	Pro	Ala	Ala	Arg	Val	Asp	Pro	Asp	Ala	Tyr	Pro
			660					665					670		
Cys	Tyr	Phe	Phe	Lys	Ser	Ala	Cys	Arg	Pro	Gly	Pro	Ala	Ser	Val	Gly
			675					680					685		
Ser	Gly	Ser	Gly	Leu	Gly	Asn	Asp	Asp	Asp	Gly	Asp	Trp	Phe	Pro	Cys
			690					695					700		
Tyr	Asp	Asp	Ala	Gly	Asp	Glu	Glu	Trp	Ala	Glu	Asp	Pro	Gly	Ala	Met

705		710		715		720
Asp Thr Ser His	Asp Pro Pro Asp Asp	Glu Val Ala Tyr Phe	Asp Leu			
	725	730	735			
Cys His Glu Val	Gly Pro Thr Ala	Glu Pro Arg Glu Thr	Asp Ser Pro			
	740	745	750			
Val Cys Ser Cys	Thr Asp Lys Ile	Gly Leu Arg Val	Cys Met Pro Val			
	755	760	765			
Pro Ala Pro Tyr	Val Val His Gly	Ser Leu Thr Met	Arg Gly Val Ala			
	770	775	780			
Arg Val Ile Gln	Gln Ala Val Leu	Leu Asp Arg Asp	Phe Val Glu Ala			
	785	790	795	800		
Ile Gly Ser Tyr	Val Lys Asn Phe	Leu Leu Ile Asp	Thr Gly Val Tyr			
	805	810	815			
Ala His Gly His	Ser Leu Arg Leu	Pro Tyr Phe Ala	Lys Ile Ala Pro			
	820	825	830			
Asp Gly Pro Ala	Cys Gly Arg Leu	Leu Pro Val Phe	Val Ile Pro Pro			
	835	840	845			
Ala Cys Lys Asp	Val Pro Ala Phe	Val Ala Ala His	Ala Asp Pro Arg			
	850	855	860			
Arg Phe His Phe	His Ala Pro Pro	Thr Tyr Leu Ala	Ser Pro Arg Glu			
	865	870	875	880		
Ile Arg Val Leu	His Ser Leu Gly	Gly Asp Tyr Val	Ser Phe Phe Glu			
	885	890	895			
Arg Lys Ala Ser	Arg Asn Ala Leu	Glu His Phe Gly	Arg Arg Glu Thr			
	900	905	910			
Leu Thr Glu Val	Leu Gly Arg Tyr	Asn Val Gln Pro	Asp Ala Gly Gly			
	915	920	925			
Thr Val Glu Gly	Phe Ala Ser Glu	Leu Leu Gly Arg	Ile Val Ala Cys			
	930	935	940			
Ile Glu Thr His	Phe Pro Glu His	Ala Gly Glu Tyr	Gln Ala Val Ser			
	945	950	955	960		
Val Arg Arg Ala	Val Ser Lys Asp	Asp Trp Val Leu	Leu Gln Leu Val			
	965	970	975			
Pro Val Arg Gly	Thr Leu Gln Gln	Ser Leu Ser Cys	Leu Arg Phe Lys			
	980	985	990			
His Gly Arg Ala	Ser Arg Ala Thr	Ala Arg Thr Phe	Val Ala Leu Ser			
	995	1000	1005			
Val Gly Ala Asn	Asn Arg Leu Cys	Val Ser Leu Cys	Gln Gln Cys Phe			

1010 1015 1020

Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr Leu Phe Thr Ile Asp  
 1025 1030 1035 1040

Ala Gly Thr Pro Cys Ser Pro Ser Val Pro Cys Ser Thr Ser Gln Pro  
 1045 1050 1055

Ser Ser

<210> 99  
 <211> 701  
 <212> DNA  
 <213> Herpes Virus

<400> 99

```

ttggtcctgc gctccatctc cgagcgcgcg gcggtcgacc gcatcagcga gagctttggc 60
cgcagcgcac aggtcatgca cgaccccttt ggggggcagc cgtttccgc cgcgaatagc 120
ccctgggccc cgggtgctggc gggccaagga gggccctttg acgccgagac cagacgggtc 180
tcctgggaaa ccttggctgc ccacggcccg agcctctatc gcacttttgc cggcaatcct 240
cgggcccgcg cgaccgcaa ggccatgcgc gactgcgtgc tgcgccaaga aaatttcac 300
gaggcgctgg cctccgccga cgagacgctg gcgtggtgca agatgtgcat ccaccacaac 360
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ggcctgatcg aaatcctaga cacgcaccgc caggagtgtt c 701
  
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<210> 100  
 <211> 233  
 <212> PRT  
 <213> Herpes Virus

<400> 100

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Leu Val Leu Arg Ser Ile Ser Glu Arg Ala Ala Val Asp Arg Ile Ser
  1             5             10             15

Glu Ser Phe Gly Arg Ser Ala Gln Val Met His Asp Pro Phe Gly Gly
          20             25             30

Gln Pro Phe Pro Ala Ala Asn Ser Pro Trp Ala Pro Val Leu Ala Gly
          35             40             45

Gln Gly Gly Pro Phe Asp Ala Glu Thr Arg Arg Val Ser Trp Glu Thr
          50             55             60

Leu Val Ala His Gly Pro Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro
          65             70             75             80

Arg Ala Ala Ser Thr Ala Lys Ala Met Arg Asp Cys Val Leu Arg Gln
          85             90             95

Glu Asn Phe Ile Glu Ala Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp
  
```

100	105	110
Cys Lys Met Cys Ile His His Asn Leu Pro Leu Arg Pro Gln Asp Pro		
115	120	125
Ile Ile Gly Thr Thr Ala Ala Val Leu Asp Asn Leu Ala Thr Arg Leu		
130	135	140
Arg Pro Phe Leu Gln Cys Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu		
145	150	155
160		
Asp Glu Leu Cys Ser Arg Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala		
165	170	175
Ser Phe Val Phe Val Ile Leu Ala Arg Leu Ala Asn Arg Val Glu Arg		
180	185	190
Gly Val Ala Glu Ile Asp Tyr Ala Thr Leu Gly Val Gly Val Gly Glu		
195	200	205
Lys Met His Phe Tyr Leu Pro Gly Ala Cys Met Ala Gly Leu Ile Glu		
210	215	220
Ile Leu Asp Thr His Arg Gln Glu Cys		
225	230	

<210> 101  
 <211> 1539  
 <212> DNA  
 <213> Herpes Virus

<400> 101  
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 ggggagtggt cctcgtcgga cgaggacatg gaagaccccc acggagagga cggaccggag 180  
 ccgatactcg acgcgcgtcg cccggcggtc cgcccgtctc gtccagaaga ccccggcgta 240  
 cccagcaccc agacgcctcg tccgacggag cggcagggcc ccaacgatcc tcaaccagcg 300  
 ccccacagtg tgtggtcgcg cctcggggcc cggcgaccgt cttgctcccc cgagcagcac 360  
 gggggcaagg tggccgcct ccaacccccca cggaccaaag cccagcctgc ccgcggcgga 420  
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 ggggtggacgg acggccccgg cgcccccat ggcgaggcgt ggcgcggcag tgagcagccc 600  
 gaccacccg gaggccagcg gacacggggc gtgcgccaag ccccccccc gctaattgacg 660  
 ctggcgattg ccccccgcc cgcggaaccc cgcgccccgg ccccggagcg aaaggcgccc 720  
 gccgcccaga ccatcgacgc caccacggcg ttggtcctgc gctccatctc cgagcgcgcg 780  
 gcggtcgacc gcatcagcga gagctttggc cgcagcgcac aggtcatgca cgacccttt 840  
 ggggggcagc cgtttcccg cgcgaaatag ccctgggccc cgggtgctggc gggccaagga 900  
 gggccctttg acgcgagac cagacgggtc tcctgggaaa ccttggtcgc ccacggcccc 960  
 agcctctatc gcacttttgc cggcaatcct cgggcccgat cgaccgcaa ggccatgcgc 1020  
 gactgcgtgc tgcgccaaga aaatttcacg gaggcgtgg cctccgccga cgagacgctg 1080  
 gcgtggtgca agatgtgcat ccaccacaac ctgccgtgc gcccccagga cccattatc 1140  
 gggacgaccg cggctgtgct ggataacctc gccacgcgcc tgcggccctt tctccagtgc 1200  
 tacctgaagg cgcgaggcct gtgcggcctg gacgaactgt gttcgcggcg gcgtctggcg 1260  
 gacattaagg acattgcatc cttcgtgttt gtcattctgg ccaggctcgc caaccgcgtc 1320  
 gagcgtggcg tcgcggagat cgactacgcg acccttggtg tcggggtcgg agagaagatg 1380  
 catttctacc tccccggggc ctgcatggcg ggccctgatc aaatcctaga cagcaccgc 1440

caggagtgtt cgagtcgtgt ctgcgagttg acggccagtc acatcgtcgc cccccgtac 1500  
 gtgcacggca aatattttta ttgcaactcc ctgttttag 1539

<210> 102  
 <211> 512  
 <212> PRT  
 <213> Herpes Virus

<400> 102  
 Met Ala Thr Asp Ile Asp Met Leu Ile Asp Leu Gly Leu Asp Leu Ser  
   1                  5                  10                  15  
 Asp Ser Asp Leu Asp Glu Asp Pro Pro Glu Pro Ala Glu Ser Arg Arg  
                   20                  25                  30  
 Asp Asp Leu Glu Ser Asp Ser Ser Gly Glu Cys Ser Ser Ser Asp Glu  
                   35                  40                  45  
 Asp Met Glu Asp Pro His Gly Glu Asp Gly Pro Glu Pro Ile Leu Asp  
                   50                  55                  60  
 Ala Ala Arg Pro Ala Val Arg Pro Ser Arg Pro Glu Asp Pro Gly Val  
                   65                  70                  75                  80  
 Pro Ser Thr Gln Thr Pro Arg Pro Thr Glu Arg Gln Gly Pro Asn Asp  
                   85                  90                  95  
 Pro Gln Pro Ala Pro His Ser Val Trp Ser Arg Leu Gly Ala Arg Arg  
                   100                  105                  110  
 Pro Ser Cys Ser Pro Glu Gln His Gly Gly Lys Val Ala Arg Leu Gln  
                   115                  120                  125  
 Pro Pro Pro Thr Lys Ala Gln Pro Ala Arg Gly Gly Arg Arg Gly Arg  
                   130                  135                  140  
 Arg Arg Gly Arg Gly Arg Gly Gly Pro Gly Ala Ala Asp Gly Leu Ser  
                   145                  150                  155                  160  
 Asp Pro Arg Arg Arg Ala Pro Arg Thr Asn Arg Asn Pro Gly Gly Pro  
                   165                  170                  175  
 Arg Pro Gly Ala Gly Trp Thr Asp Gly Pro Gly Ala Pro His Gly Glu  
                   180                  185                  190  
 Ala Trp Arg Gly Ser Glu Gln Pro Asp Pro Pro Gly Gly Gln Arg Thr  
                   195                  200                  205  
 Arg Gly Val Arg Gln Ala Pro Pro Pro Leu Met Thr Leu Ala Ile Ala  
                   210                  215                  220  
 Pro Pro Pro Ala Asp Pro Arg Ala Pro Ala Pro Glu Arg Lys Ala Pro  
                   225                  230                  235                  240  
 Ala Ala Asp Thr Ile Asp Ala Thr Thr Arg Leu Val Leu Arg Ser Ile  
                   245                  250                  255

Ser Glu Arg Ala Ala Val Asp Arg Ile Ser Glu Ser Phe Gly Arg Ser  
 260 265 270  
 Ala Gln Val Met His Asp Pro Phe Gly Gly Gln Pro Phe Pro Ala Ala  
 275 280 285  
 Asn Ser Pro Trp Ala Pro Val Leu Ala Gly Gln Gly Gly Pro Phe Asp  
 290 295 300  
 Ala Glu Thr Arg Arg Val Ser Trp Glu Thr Leu Val Ala His Gly Pro  
 305 310 315 320  
 Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro Arg Ala Ala Ser Thr Ala  
 325 330 335  
 Lys Ala Met Arg Asp Cys Val Leu Arg Gln Glu Asn Phe Ile Glu Ala  
 340 345 350  
 Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp Cys Lys Met Cys Ile His  
 355 360 365  
 His Asn Leu Pro Leu Arg Pro Gln Asp Pro Ile Ile Gly Thr Thr Ala  
 370 375 380  
 Ala Val Leu Asp Asn Leu Ala Thr Arg Leu Arg Pro Phe Leu Gln Cys  
 385 390 395 400  
 Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu Asp Glu Leu Cys Ser Arg  
 405 410 415  
 Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala Ser Phe Val Phe Val Ile  
 420 425 430  
 Leu Ala Arg Leu Ala Asn Arg Val Glu Arg Gly Val Ala Glu Ile Asp  
 435 440 445  
 Tyr Ala Thr Leu Gly Val Gly Val Gly Glu Lys Met His Phe Tyr Leu  
 450 455 460  
 Pro Gly Ala Cys Met Ala Gly Leu Ile Glu Ile Leu Asp Thr His Arg  
 465 470 475 480  
 Gln Glu Cys Ser Ser Arg Val Cys Glu Leu Thr Ala Ser His Ile Val  
 485 490 495  
 Ala Pro Pro Tyr Val His Gly Lys Tyr Phe Tyr Cys Asn Ser Leu Phe  
 500 505 510

<210> 103  
 <211> 974  
 <212> DNA  
 <213> Herpes Virus

<400> 103

```
cggcgaatgg cctgtcgtaa gttttgtcgc gtttacgggg gacagggcag gaggaaggag 60
gaggccgtcc cgccggagac aaagccgtcc cgggtgtttc ctcattggccc cttttataacc 120
ccagccgagg acgcgtgcct ggactccccg ccccgaggaga cccccaacc ttcccacacc 180
acaccacca gcgaggccga gcgcctgtgt catctgcagg agatccttgc ccagatgtac 240
ggaaaccagg actaccccat agaggacgac cccagcgcg atgccgcgga cgatgtcgac 300
gaggacgccc cggacgacgt ggcctatccg gaggaatacg cagaggagct ttttctgccc 360
ggggacgcga ccggtccctt tatcggggcc aacgaccaca tccctcccc gtgtggcgca 420
tctcccccg gtatacgacg acgcagcccg gatgagattg gggccacggg atttaccgcg 480
gaagagctgg acgcatgga cagggaggcg gctcgagcca tcagccgcgg cggcaagccc 540
ccctcgacca tggccaagct ggtgactggc atgggcttta cgatccacgg agcgctcacc 600
ccaggatcgg aggggtgtgt ctttgacagc agccatccag attaccccca acgggtaatc 660
gtgaaggcgg ggtggtacac gagcagcagc cagcaggcgc gactgctgag gcgactggac 720
caccgcgca tctgcccct cctggacctg catgtcgtct ccgggggtcac gtgtctggtc 780
ctccccaaat accaggccga cctgtatacc tatctgagta ggcgcctgaa cccactggga 840
cgcccgca tgcagcgggt ctcccgccag ctccctaagcg ccgttgacta cattcaccgc 900
cagggcatta tccaccgcga cattaagacc gaaaatattt ttattaacac ccccgaggac 960
atttgctggy ggga 974
```

<210> 104

<211> 324

<212> PRT

<213> Herpes Virus

<400> 104

```
Arg Arg Met Ala Cys Arg Lys Phe Cys Arg Val Tyr Gly Gly Gln Gly
  1             5             10            15

Arg Arg Lys Glu Glu Ala Val Pro Pro Glu Thr Lys Pro Ser Arg Val
  20             25            30

Phe Pro His Gly Pro Phe Tyr Thr Pro Ala Glu Asp Ala Cys Leu Asp
  35             40            45

Ser Pro Pro Pro Glu Thr Pro Lys Pro Ser His Thr Thr Pro Pro Ser
  50             55            60

Glu Ala Glu Arg Leu Cys His Leu Gln Glu Ile Leu Ala Gln Met Tyr
  65             70            75            80

Gly Asn Gln Asp Tyr Pro Ile Glu Asp Asp Pro Ser Ala Asp Ala Ala
  85             90            95

Asp Asp Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu
 100            105            110

Tyr Ala Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile
 115            120            125

Gly Ala Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly
 130            135            140

Ile Arg Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala
 145            150            155            160
```

Glu Glu Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg  
 165 170 175  
 Gly Gly Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly  
 180 185 190  
 Phe Thr Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe  
 195 200 205  
 Asp Ser Ser His Pro Asp Tyr Pro Gln Arg Val Ile Val Lys Ala Gly  
 210 215 220  
 Trp Tyr Thr Ser Thr Ser His Glu Ala Arg Leu Leu Arg Arg Leu Asp  
 225 230 235 240  
 His Pro Ala Ile Leu Pro Leu Leu Asp Leu His Val Val Ser Gly Val  
 245 250 255  
 Thr Cys Leu Val Leu Pro Lys Tyr Gln Ala Asp Leu Tyr Thr Tyr Leu  
 260 265 270  
 Ser Arg Arg Leu Asn Pro Leu Gly Arg Pro Gln Ile Ala Ala Val Ser  
 275 280 285  
 Arg Gln Leu Leu Ser Ala Val Asp Tyr Ile His Arg Gln Gly Ile Ile  
 290 295 300  
 His Arg Asp Ile Lys Thr Glu Asn Ile Phe Ile Asn Thr Pro Glu Asp  
 305 310 315 320

Ile Cys Leu Gly

<210> 105  
 <211> 1446  
 <212> DNA  
 <213> Herpes Virus

<400> 105  
 atggcctgtc gtaagttttg tcgcgtttac gggggacagg gcaggaggaa ggaggaggcc 60  
 gtcccgcgg agacaaagcc gtcccgggtg tttcctcatg gcccctttta taccacagcc 120  
 gaggacgcgt gcctggactc cccgcccccg gagaccccca aaccttccca caccacacca 180  
 cccagcgagg ccgagcgctt gtgtcatctg caggagatcc ttgcccagat gtacggaaac 240  
 caggactacc ccatagagga cgacccagc gcggatgccg cggacgatgt cgaçgaggac 300  
 gccccggacg acgtggccta tccggaggaa tacgcagagg agctttttct gcccggggac 360  
 gcgaccggtc cccttatcgg ggccaacgac cacatccctc ccccggtgtg cgcactctcc 420  
 cccggtatac gacgacgcag ccgggatgag attggggcca cgggatttac cgcggaagag 480  
 ctggacgcca tggacagggg ggcggctcga gccatcagcc gcggcggaac gccccctcg 540  
 accatggcca agctggtgac tggcatgggc tttacgatcc acggagcgct caccacagga 600  
 tcggaggggt gtgtctttga cagcagccat ccagattacc cccaacgggt aatcgtgaag 660  
 gcgggggtgt acacgagcac gagccacgag gcgcgactgc tgaggcgact ggaccacccg 720  
 gcgatcctgc cctcctgga cctgcatgtc gtctccgggg tcacgtgtct ggtcctcccc 780  
 aagtaccagg ccgacctgta tacctatctg agtaggcgcc tgaacccact gggacgcccc 840  
 cagatcgag cggtctcccg gcagctccta agcgccggtg actacattca ccgccagggc 900  
 attatccacc gcgacattaa gaccgaaaat atttttatta acacccccga ggacatttgc 960  
 ctgggggact ttggcgccgc gtgcttcgtg cagggttccc gatcaagccc cttcccctac 1020



```

ggaatcgccg gaaccatcga caccaacgcc cccgaggtcc tggccgggga tccgtatacc 1080
acgaccgtcg acatttggag cgccggtctg gtgatcttcg agactgccgt ccacaacgcg 1140
tccttgttct cggccccccg cggccccaaa agggggcccg gcgacagtca gatcaccgcg 1200
atcatccgac aggcccaggt ccacgttgac gagttttccc cgcattccaga atcgcgccctc 1260
acctcgcgct accgctcccc cgcgcccggg aacaatcgcc cgccgtacac ccgaccggcc 1320
tggaccgcgt actacaagat ggacatagac gtcgaatata tggtttgcaa agccctcacc 1380
ttcgacggcg cgcttcgccc cagcgccgca gagctgcttt gtttgccgct gtttcaacag 1440
aatga 1446

```

<210> 106  
 <211> 481  
 <212> PRT  
 <213> Herpes Virus

```

<400> 106
Met Ala Cys Arg Lys Phe Cys Arg Val Tyr Gly Gly Gln Gly Arg Arg
  1             5             10             15

Lys Glu Glu Ala Val Pro Pro Glu Thr Lys Pro Ser Arg Val Phe Pro
      20             25             30

His Gly Pro Phe Tyr Thr Pro Ala Glu Asp Ala Cys Leu Asp Ser Pro
      35             40             45

Pro Pro Glu Thr Pro Lys Pro Ser His Thr Thr Pro Pro Ser Glu Ala
      50             55             60

Glu Arg Leu Cys His Leu Gln Glu Ile Leu Ala Gln Met Tyr Gly Asn
      65             70             75             80

Gln Asp Tyr Pro Ile Glu Asp Asp Pro Ser Ala Asp Ala Ala Asp Asp
      85             90             95

Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu Tyr Ala
      100            105            110

Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile Gly Ala
      115            120            125

Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly Ile Arg
      130            135            140

Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala Glu Glu
      145            150            155            160

Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg Gly Gly
      165            170            175

Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly Phe Thr
      180            185            190

Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe Asp Ser
      195            200            205

Ser His Pro Asp Tyr Pro Gln Arg Val Ile Val Lys Ala Gly Trp Tyr
      210            215            220

```

Thr Ser Thr Ser His Glu Ala Arg Leu Leu Arg Arg Leu Asp His Pro  
 225 230 235 240  
 Ala Ile Leu Pro Leu Leu Asp Leu His Val Val Ser Gly Val Thr Cys  
 245 250 255  
 Leu Val Leu Pro Lys Tyr Gln Ala Asp Leu Tyr Thr Tyr Leu Ser Arg  
 260 265 270  
 Arg Leu Asn Pro Leu Gly Arg Pro Gln Ile Ala Ala Val Ser Arg Gln  
 275 280 285  
 Leu Leu Ser Ala Val Asp Tyr Ile His Arg Gln Gly Ile Ile His Arg  
 290 295 300  
 Asp Ile Lys Thr Glu Asn Ile Phe Ile Asn Thr Pro Glu Asp Ile Cys  
 305 310 315 320  
 Leu Gly Asp Phe Gly Ala Ala Cys Phe Val Gln Gly Ser Arg Ser Ser  
 325 330 335  
 Pro Phe Pro Tyr Gly Ile Ala Gly Thr Ile Asp Thr Asn Ala Pro Glu  
 340 345 350  
 Val Leu Ala Gly Asp Pro Tyr Thr Thr Thr Val Asp Ile Trp Ser Ala  
 355 360 365  
 Gly Leu Val Ile Phe Glu Thr Ala Val His Asn Ala Ser Leu Phe Ser  
 370 375 380  
 Ala Pro Arg Gly Pro Lys Arg Gly Pro Cys Asp Ser Gln Ile Thr Arg  
 385 390 395 400  
 Ile Ile Arg Gln Ala Gln Val His Val Asp Glu Phe Ser Pro His Pro  
 405 410 415  
 Glu Ser Arg Leu Thr Ser Arg Tyr Arg Ser Arg Ala Ala Gly Asn Asn  
 420 425 430  
 Arg Pro Pro Tyr Thr Arg Pro Ala Trp Thr Arg Tyr Tyr Lys Met Asp  
 435 440 445  
 Ile Asp Val Glu Tyr Leu Val Cys Lys Ala Leu Thr Phe Asp Gly Ala  
 450 455 460  
 Leu Arg Pro Ser Ala Ala Glu Leu Leu Cys Leu Pro Leu Phe Gln Gln  
 465 470 475 480

Lys

<210> 107  
 <211> 261  
 <212> DNA  
 <213> Herpes Virus

<400> 107

```
gtctggcatc tggggccttt gggaagcctc gtgggggctg ttcttgccgc caccatcgg 60
ggacctgcgg ccaacacaac ggaccctta acgcacgccc cagtgtcccc tcaccccagc 120
cccctggggg gctttgccgt cccctcgta gtcggtgggc tgtgcgccgt agtcctgggg 180
gcggcatgtc tgcttgagct cctgcgtcgt acgtgccgcg ggtgggggcg ttaccatccc 240
tacatggacc cagttgtcgt a 261
```

<210> 108

<211> 87

<212> PRT

<213> Herpes Virus

<400> 108

```
Val Trp His Leu Gly Leu Leu Gly Ser Leu Val Gly Ala Val Leu Ala
  1             5             10             15
Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr Asp Pro Leu Thr His
          20             25             30
Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly Gly Phe Ala Val Pro
          35             40             45
Leu Val Val Gly Gly Leu Cys Ala Val Val Leu Gly Ala Ala Cys Leu
          50             55             60
Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp Gly Arg Tyr His Pro
          65             70             75             80
Tyr Met Asp Pro Val Val Val
          85
```

<210> 109

<211> 279

<212> DNA

<213> Herpes Virus

<400> 109

```
atgtctctgc gcgcagtctg gcatctgggg cttttgggaa gcctcgtggg ggetgttctt 60
gccgccaccc atcggggacc tgcggccaac acaacggacc ccttaacgca cgccccagtg 120
tcccctcacc ccagccccct ggggggcttt gccgtcccc tcgtagtcgg tgggctgtgc 180
gccgtagtcc tgggggcggc atgtctgctt gagtcctgc gtcgtacgtg ccgcgggtgg 240
gggcgttacc atccctacat ggaccagtt gtcgtataa 279
```

<210> 110

<211> 92

<212> PRT

<213> Herpes Virus

<400> 110

```
Met Ser Leu Arg Ala Val Trp His Leu Gly Leu Leu Gly Ser Leu Val
  1             5             10             15
Gly Ala Val Leu Ala Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr
```

20	25	30
Asp Pro Leu Thr His Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly		
35	40	45
Gly Phe Ala Val Pro Leu Val Val Gly Gly Leu Cys Ala Val Val Leu		
50	55	60
Gly Ala Ala Cys Leu Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp		
65	70	75
		80
Gly Arg Tyr His Pro Tyr Met Asp Pro Val Val Val		
85	90	

<210> 111  
 <211> 1381  
 <212> DNA  
 <213> Herpes Virus

<400> 111  
 caccgacgaa tcccctaagg gggagggggcc atttttacgag gaggaggggt ataacaaagt 60  
 ctgtcttttaa aaagcagggg ttagggaggt gttcgggtcat aagcttcagc gcgaacgacc 120  
 aactaccccg atcatcagtt atccttaagg tctcttttgt gtggtgcgtt ccggtatggg 180  
 gggggctgcc gccaggttgg gggccgtgat tttgtttgtc gtcatagtgg gcctccatgg 240  
 ggtccgcagc aaatatgcct tgggtgatgc ctctctcaag atggccgacc ccaatcgctt 300  
 tcgcggcaaa gaccttccgg tccctggacca gctgaccgac cctccggggg tccggcgcgt 360  
 gtaccacatc caggcggggc taccggaccc gttccagccc cccagcctcc cgatcacggg 420  
 ttactacgcc gtgttgaggc gcgcctgccg cagcgtgctc ctaaacgcac cgtcggaggc 480  
 cccccagatt gtccgcgggg cctccgaaga cgtccggaaa caaccctaca acctgaccat 540  
 cgcttggttt cggatgggag gcaactgtgc tatccccatc acgggtcatgg agtacaccga 600  
 atgtctctac aacaagtctc tggggggcctg tcccatccga acgcagcccc gctggaacta 660  
 ctatgacagc ttcagcgccg tcagcgagga taacctgggg ttcttgatgc acgccccgc 720  
 gtttgagacc gccggcacgt acctgcggct cgtgaagata aacgactgga cggagattac 780  
 acagtttatc ctggagcacc gagccaaggg ctctgttaag tacgccctcc cgctgcgcat 840  
 cccccgtca gcctgcctct cccccaggc ctaccagcag ggggtgacgg tggacagcat 900  
 cgggatgctg ccccgcttca tccccgagaa ccagcgcacc gtcgccgtat acagcttgaa 960  
 gatcgccggg tggcacgggc ccaaggcccc atacacgagc accctgctgc ccccgagct 1020  
 gtccgagacc cccaacgcca cgcagccaga actcgccccg gaagaccccc aggattcggc 1080  
 cctcttgagg gaccccgtag ggacggtggc gccgcaaact ccaccaaact ggcacatacc 1140  
 gtcgatccag gacgccgga cgccttacca tccccggcc accccgaaca acatgggct 1200  
 gatcgccggc gcggtgggc gcagtctct ggcagccctg gtcatttgcg gaattgtgta 1260  
 ctggatgcgc cgccacactc aaaaagcccc aaagcgcata cgctcccc acatccggga 1320  
 agacgaccag cgtctctgc accagccctt gttttactag ataccccc ttaatgggtg 1380  
 c 1381

<210> 112  
 <211> 394  
 <212> PRT  
 <213> Herpes Virus

<400> 112  
 Met Gly Gly Ala Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val  
 1 5 10 15  
 Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala

20					25					30						
Ser	Leu	Lys	Met	Ala	Asp	Pro	Asn	Arg	Phe	Arg	Gly	Lys	Asp	Leu	Pro	
35					40					45						
Val	Leu	Asp	Gln	Leu	Thr	Asp	Pro	Pro	Gly	Val	Arg	Arg	Val	Tyr	His	
50					55					60						
Ile	Gln	Ala	Gly	Leu	Pro	Asp	Pro	Phe	Gln	Pro	Pro	Ser	Leu	Pro	Ile	
65					70					75					80	
Thr	Val	Tyr	Tyr	Ala	Val	Leu	Glu	Arg	Ala	Cys	Arg	Ser	Val	Leu	Leu	
85					90					95						
Asn	Ala	Pro	Ser	Glu	Ala	Pro	Gln	Ile	Val	Arg	Gly	Ala	Ser	Glu	Asp	
100					105					110						
Val	Arg	Lys	Gln	Pro	Tyr	Asn	Leu	Thr	Ile	Ala	Trp	Phe	Arg	Met	Gly	
115					120					125						
Gly	Asn	Cys	Ala	Ile	Pro	Ile	Thr	Val	Met	Glu	Tyr	Thr	Glu	Cys	Ser	
130					135					140						
Tyr	Asn	Lys	Ser	Leu	Gly	Ala	Cys	Pro	Ile	Arg	Thr	Gln	Pro	Arg	Trp	
145					150					155					160	
Asn	Tyr	Tyr	Asp	Ser	Phe	Ser	Ala	Val	Ser	Glu	Asp	Asn	Leu	Gly	Phe	
165					170					175						
Leu	Met	His	Ala	Pro	Ala	Phe	Glu	Thr	Ala	Gly	Thr	Tyr	Leu	Arg	Leu	
180					185					190						
Val	Lys	Ile	Asn	Asp	Trp	Thr	Glu	Ile	Thr	Gln	Phe	Ile	Leu	Glu	His	
195					200					205						
Arg	Ala	Lys	Gly	Ser	Cys	Lys	Tyr	Ala	Leu	Pro	Leu	Arg	Ile	Pro	Pro	
210					215					220						
Ser	Ala	Cys	Leu	Ser	Pro	Gln	Ala	Tyr	Gln	Gln	Gly	Val	Thr	Val	Asp	
225					230					235					240	
Ser	Ile	Gly	Met	Leu	Pro	Arg	Phe	Ile	Pro	Glu	Asn	Gln	Arg	Thr	Val	
245					250					255						
Ala	Val	Tyr	Ser	Leu	Lys	Ile	Ala	Gly	Trp	His	Gly	Pro	Lys	Ala	Pro	
260					265					270						
Tyr	Thr	Ser	Thr	Leu	Leu	Pro	Pro	Glu	Leu	Ser	Glu	Thr	Pro	Asn	Ala	
275					280					285						
Thr	Gln	Pro	Glu	Leu	Ala	Pro	Glu	Asp	Pro	Glu	Asp	Ser	Ala	Leu	Leu	
290					295					300						
Glu	Asp	Pro	Val	Gly	Thr	Val	Ala	Pro	Gln	Ile	Pro	Pro	Asn	Trp	His	
305					310					315					320	
Ile	Pro	Ser	Ile	Gln	Asp	Ala	Ala	Thr	Pro	Tyr	His	Pro	Pro	Ala	Thr	

325								330					335			
Pro	Asn	Asn	Met	Gly	Leu	Ile	Ala	Gly	Ala	Val	Gly	Gly	Ser	Leu	Leu	
			340					345				350				
Ala	Ala	Leu	Val	Ile	Cys	Gly	Ile	Val	Tyr	Trp	Met	Arg	Arg	His	Thr	
			355				360				365					
Gln	Lys	Ala	Pro	Lys	Arg	Ile	Arg	Leu	Pro	His	Ile	Arg	Glu	Asp	Asp	
		370				375				380						
Gln	Pro	Ser	Ser	His	Gln	Pro	Leu	Phe	Tyr							
		385				390										

Arg	Arg	Val	Tyr	His	Ile	Gln	Ala	Gly	Leu	Pro	Asp	Pro	Phe	Gln	Pro
50						55					60				
Pro	Ser	Leu	Pro	Ile	Thr	Val	Tyr	Tyr	Ala	Val	Leu	Glu	Arg	Ala	Cys
65					70					75					80
Arg	Ser	Val	Leu	Leu	Asn	Ala	Pro	Ser	Glu	Ala	Pro	Gln	Ile	Val	Arg
				85					90					95	
Gly	Ala	Ser	Glu	Asp	Val	Arg	Lys	Gln	Pro	Tyr	Asn	Leu	Thr	Ile	Ala
			100					105					110		
Trp	Phe	Arg	Met	Gly	Gly	Asn	Cys	Ala	Ile	Pro	Ile	Thr	Val	Met	Glu
	115						120					125			
Tyr	Thr	Glu	Cys	Ser	Tyr	Asn	Lys	Ser	Leu	Gly	Ala	Cys	Pro	Ile	Arg
	130					135					140				
Thr	Gln	Pro	Arg	Trp	Asn	Tyr	Tyr	Asp	Ser	Phe	Ser	Ala	Val	Ser	Glu
145					150					155					160
Asp	Asn	Leu	Gly	Phe	Leu	Met	His	Ala	Pro	Ala	Phe	Glu	Thr	Ala	Gly
				165					170					175	
Thr	Tyr	Leu	Arg	Leu	Val	Lys	Ile	Asn	Asp	Trp	Thr	Glu	Ile	Thr	Gln
			180					185					190		
Phe	Ile	Leu	Glu	His	Arg	Ala	Lys	Gly	Ser	Cys	Lys	Tyr	Ala	Leu	Pro
	195						200					205			
Leu	Arg	Ile	Pro	Pro	Ser	Ala	Cys	Leu	Ser	Pro	Gln	Ala	Tyr	Gln	Gln
	210					215					220				
Gly	Val	Thr	Val	Asp	Ser	Ile	Gly	Met	Leu	Pro	Arg	Phe	Ile	Pro	Glu
225					230					235					240
Asn	Gln	Arg	Thr	Val	Ala	Val	Tyr	Ser	Leu	Lys	Ile	Ala	Gly	Trp	His
				245					250					255	
Gly	Pro	Lys	Ala	Pro	Tyr	Thr	Ser	Thr	Leu	Leu	Pro	Pro	Glu	Leu	Ser
			260					265					270		
Glu	Thr	Pro	Asn	Ala	Thr	Gln	Pro	Glu	Leu	Ala	Pro	Glu	Asp	Pro	Glu
	275					280						285			
Asp	Ser	Ala	Leu	Leu	Glu	Asp	Pro	Val	Gly	Thr	Val	Ala	Pro	Gln	Ile
	290					295					300				
Pro	Pro	Asn	Trp	His	Ile	Pro	Ser	Ile	Gln	Asp	Ala	Ala	Thr	Pro	Tyr
305					310					315					320
His	Pro	Pro	Ala	Thr	Pro	Asn	Asn	Met	Gly	Leu	Ile	Ala	Gly	Ala	Val
				325					330					335	
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Met Arg Arg His Thr Gln Lys Ala Pro Lys Arg Ile  
 355 360

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 <211> 1185  
 <212> DNA  
 <213> Herpes Virus

<400> 115  
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<210> 116  
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<400> 116  
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 35 40 45  
 Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val Arg Arg Val Tyr His  
 50 55 60  
 Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro Pro Ser Leu Pro Ile  
 65 70 75 80  
 Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys Arg Ser Val Leu Leu  
 85 90 95  
 Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg Gly Ala Ser Glu Asp



100					105					110					
Val	Arg	Lys	Gln	Pro	Tyr	Asn	Leu	Thr	Ile	Ala	Trp	Phe	Arg	Met	Gly
		115					120					125			
Gly	Asn	Cys	Ala	Ile	Pro	Ile	Thr	Val	Met	Glu	Tyr	Thr	Glu	Cys	Ser
		130					135					140			
Tyr	Asn	Lys	Ser	Leu	Gly	Ala	Cys	Pro	Ile	Arg	Thr	Gln	Pro	Arg	Trp
							150					155			
Asn	Tyr	Tyr	Asp	Ser	Phe	Ser	Ala	Val	Ser	Glu	Asp	Asn	Leu	Gly	Phe
Leu	Met	His	Ala	Pro	Ala	Phe	Glu	Thr	Ala	Gly	Thr	Tyr	Leu	Arg	Leu
Val	Lys	Ile	Asn	Asp	Trp	Thr	Glu	Ile	Thr	Gln	Phe	Ile	Leu	Glu	His
Arg	Ala	Lys	Gly	Ser	Cys	Lys	Tyr	Ala	Leu	Pro	Leu	Arg	Ile	Pro	Pro
Ser	Ala	Cys	Leu	Ser	Pro	Gln	Ala	Tyr	Gln	Gln	Gly	Val	Thr	Val	Asp
Ser	Ile	Gly	Met	Leu	Pro	Arg	Phe	Ile	Pro	Glu	Asn	Gln	Arg	Thr	Val
Ala	Val	Tyr	Ser	Leu	Lys	Ile	Ala	Gly	Trp	His	Gly	Pro	Lys	Ala	Pro
Tyr	Thr	Ser	Thr	Leu	Leu	Pro	Pro	Glu	Leu	Ser	Glu	Thr	Pro	Asn	Ala
Thr	Gln	Pro	Glu	Leu	Ala	Pro	Glu	Asp	Pro	Glu	Asp	Ser	Ala	Leu	Leu
Glu	Asp	Pro	Val	Gly	Thr	Val	Ala	Pro	Gln	Ile	Pro	Pro	Asn	Trp	His
Ile	Pro	Ser	Ile	Gln	Asp	Ala	Ala	Thr	Pro	Tyr	His	Pro	Pro	Ala	Thr
Pro	Asn	Asn	Met	Gly	Leu	Ile	Ala	Gly	Ala	Val	Gly	Gly	Ser	Leu	Leu
Ala	Ala	Leu	Val	Ile	Cys	Gly	Ile	Val	Tyr	Trp	Met	Arg	Arg	His	Thr
Gln	Lys	Ala	Pro	Lys	Arg	Ile	Arg	Leu	Pro	His	Ile	Arg	Glu	Asp	Asp
Gln	Pro	Ser	Ser	His	Gln	Pro	Leu	Phe	Tyr						